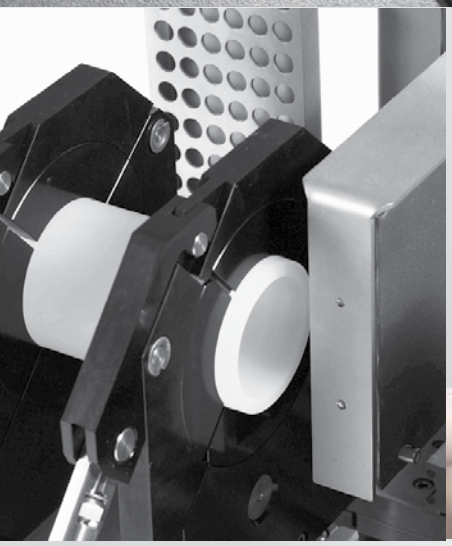


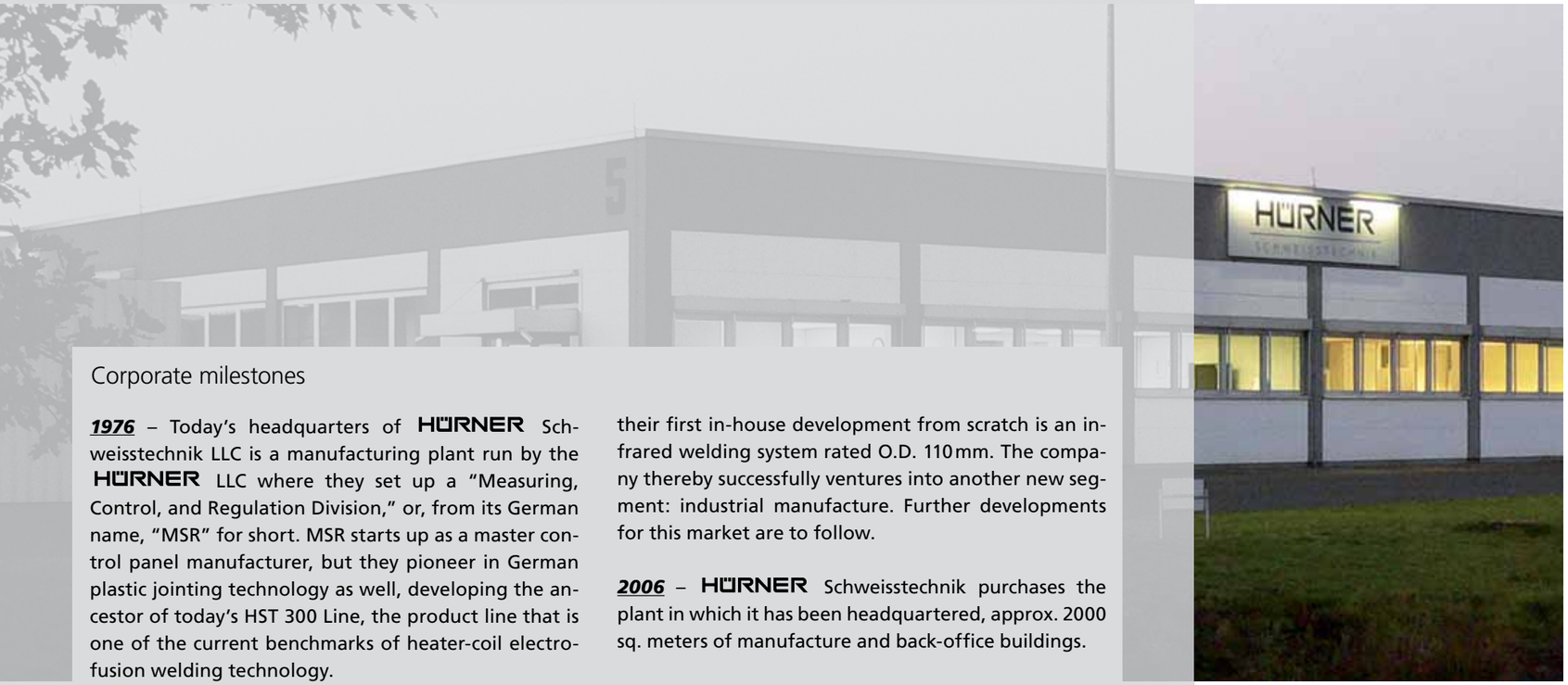
Plastic Welding Technology

Plastic Welding Technology

Creating the future today

HÜRNER
SCHWEISSTECHNIK

HÜRNER
– Always striving for success



Corporate milestones

1976 – Today's headquarters of HÜRNER Schweisstechnik LLC is a manufacturing plant run by the HÜRNER LLC where they set up a "Measuring, Control, and Regulation Division," or, from its German name, "MSR" for short. MSR starts up as a master control panel manufacturer, but they pioneer in German plastic jointing technology as well, developing the ancestor of today's HST 300 Line, the product line that is one of the current benchmarks of heater-coil electrofusion welding technology.

2000 – After a turbulent time in the 1990s, what used to be MSR is revamped to become HÜRNER Schweisstechnik LLC. The newly founded company immediately focuses on becoming a "full-range" plastic jointing technology provider, adding associated product lines to complete the offering. Development and manufacture units for engineering plastics and fluid mechanics are set up, and along with electrofusion welding, butt welding enters the portfolio.

2002 – After a successful process of emancipation from the previous corporate and group structures, HÜRNER Schweisstechnik continues as a legally and operatively fully independent company, managed by the Directors still serving today, Dipl.-Phys. Heinz Ladstätter and Dipl.-Ing. Michael Lenz. HÜRNER Schweisstechnik goes increasingly international and rapidly builds a reputation of reliable serial production and many customized solutions.

2005 – At this point, a full-fledged research and development department operates at HÜRNER Schweisstechnik, with several engineers and technicians, and their first in-house development from scratch is an infrared welding system rated O.D. 110 mm. The company thereby successfully ventures into another new segment: industrial manufacture. Further developments for this market are to follow.

2006 – HÜRNER Schweisstechnik purchases the plant in which it has been headquartered, approx. 2000 sq. meters of manufacture and back-office buildings.

2007 – Among the many providers around the world, HÜRNER Schweisstechnik is the first to offer welding and traceability data recording for manual butt-welding systems. What has become common usage for electrofusion welding, is available for butt welding thanks to the ***WeldControl*** Line.

2008 – The successful strategy adopted for infrared welding showcases again in fluid mechanics: high-spec developments partnering up with leading players of this industry. Cooperating with one of the heavyweights of occupational safety technology, HÜRNER Schweisstechnik implements the total revamping, extension, and technical updating according to ATEX requirements of a line of air extraction units for cabinets for hazardous substances: from simple positive extraction to monitored, controlled, and filtered exhaust air removal.

2010 – HÜRNER Schweisstechnik adds another area of specialization to the portfolio: workshop systems. The first in-house developments are welding machines rated up to 400 mm. Another segment of the market in which the future is already at hand.

A Brand that Speaks Knowing-what and Knowing-how

HÜRNER Schweisstechnik is not only a name for innovation, performance, customer focus, and operating safety, it is also a powerful network of partners around the world with a host of qualifications. HÜRNER products are used everywhere on the planet, and for good reasons too: they bring you state-of-the-art technology along with reliable service.

Besides our well-proven heater-coil electrofusion systems, we offer innovative butt-welding systems for buried pipeline applications as well as high-tech solutions in infrared welding for the semiconductor and the food industries. Our electrofusion systems are not afraid of even the largest pipe sizes, and our CNC and manual butt-welding machines fit every pipe from O.D. 32 to 1200/1600 mm. Whatever has the HÜRNER label on the box, has automatic data logging inside the box, either in the welding system itself or in an add-on report generation unit that can be used with our own and third-party systems. Our comprehensive product offering for everything pipe-related is rounded off by data transfer and data management solutions for pipeline network management and the traceability of every single welded joint. Furthermore, we are the partner to turn to when it comes to the manufacture of air extraction and monitoring systems and engineering plastics.

A medium-sized business growing on the domestic and the international market, we do not only rely on a dependable team of high-class engineers, electrotechnicians, and skilled workers. We also offer adolescents qualified apprenticeships and vocational trainings, for us to continue to be a successful operation in the future.

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Precision down to the smallest detail

Easy control quality

Easy control quality

HÜRNER Butt-welding Technology for Worksite Applications

HÜRNER Butt-welding Technology means perfect butt welding on worksites and in ditches. From 40 mm through 1400/1600 mm, the comprehensive product lines leave nothing to be desired, whatever the intended application: manual, semi-automated and fully automated ***CNC ECO*** machines, with automatic, ISO-compliant data logging are available for any nominal dimension.

Besides the CNC machines of the ***ECO*** Line (for ***E***asy ***C***ontrol ***O***peration), the in-house developed ***WeldControl*** systems have revolutionized manual, hydraulic plastic jointing. They achieve reproducible welding joints of a quality that was forever unmatched when using traditional welding machines.

The butt-welding machines ***CNC ECO*** and ***CNC ECO+*** produce CNC-controlled PE, PP, and PVDF pipe joints of diameters 40 mm through 1400/1600 mm. Both component traceability data and welding-related pipe parameters can be selected in intuitive menus.

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Butt-welding Technology

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The HÜRNER *CNC ECO* functions

Automatic data logging	10000
Data input	Transponder (optional bar code reader pen or scanner), manual through an alphanumeric keypad
Welding monitoring system	Welding pressure, welding time, ambient temperature, input voltage, memory control, device temperature, service indicator(1), heating element temperature, carriage distance sensing(1)
Traceability pursuant to ISO 12176-2/4	Commission number, 32 characters alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1st additional data (user-determined), 20 characters alphanumeric 2nd additional data (user-determined), 15 characters alphanumeric, ISO data(1): fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number(1), installing company(1), inventory number(1)
Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request

Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with HÜRNER database system (DataWork), PDF format
Display	LED backlit display (4 rows x 20 characters), 8 mm font size, welding diagram with progress LED's
Certification/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Automode, manual welding parameter input
Manufacturer warranty	12 months

(1) - Only on ***CNC ECO +*** machines

High-spec and durable CNC welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications rated 40 - 315 mm with various nominal sizes.

The machine ships with a totally sealed CNC hydraulic controller of rated ingress protection IP54, for operating pressures of up to 130 bar. Both the heating element and the facing tool are connected to the CNC hydraulic controller.

From the CNC hydraulic controller itself to the option to enter traceability data under the most recent ISO standard, taking in a fully self-monitoring welding process along the way, everything in a HÜRNER ***CNC ECO*** machine is designed to deliver maximum results for optimum effort at top-level user-friendliness. The ***ECO+*** model versions of the series ship with ***HDC*** – ***H***ürner ***D***istance ***C***ontrol – for utmost accuracy of the welding process. This carriage movement monitor reliably senses if the pipes are properly faced and their alignment is within tolerance, if the bead forms correctly, and if the distance the carriage travels during fusion is as expected, which is the key indicator of joint quality.
Both component traceability data and pipe material, size, and wall thickness as well as SDR ratios can be selected in intuitive menus or entered by reading and decoding them automatically from a bar code. Of course, this is also true of welding processes with the ***ECO+*** model versions, using pipe codes. Welding process are performed and monitored automatically and recorded to the internal memory by the ***CNC ECO*** Line machines. Two interfaces – three destinations: all HÜRNER ***CNC ECO*** machines feature two USB interfaces that enable data transfer to various destinations, to a USB stick, a USB-compatible printer or to a PC with HÜRNER 's database management software DataWork.

From version ***ECO*** 2.0, all CNC machines are available with the option of a transponder operator identification system, PDF format reports, and battery operation during the cooling phase.

All components ship under HÜRNER 's manufacturer warranty!

Technical specifications	160 mm	200 mm	250 mm	315 mm
Operating range	40 - 160 mm	63 - 200 mm	(63)(2)/75 - 250 mm	90 - 315 mm
Power supply	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE
Rated power	3.24 kW	3.98 kW	4.24 kW	4.74 kW
Overall weight of machine	81 kg	92 kg	126 kg	180 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	2.498 cm²	3.52 cm²	5.105 cm²	5.890 cm²
Operating pressure range	0 - 130 bar	0 - 130 bar	0 - 130 bar	0 - 130 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	40, 50, 63, 75, 90, 110, 125, 140	63, 75, 90, 110, 125, 140, 160, 180	63(2), 75, 90, 110, 125, 140, 160, 180, 200, 225 welding neck support jumping heating plate	90, 110, 125, 140, 160, 180, 200, 225, 250, 280 welding neck support jumping heating plate
4th clamp removable	–	–	√	√
CNC hydraulic controller	√	√	√	√
Basic machine	√	√	√	√
Facing tool with microswitch	√	√	√	√
Heating element PTFE-coated	√	√	√	√
Carrying case	√	√	√	√
HÜRNER transport box for reducers and machine	√(2)	√(2)	√(2)	√(2)

(2) - Optional

160/200/250/315

The HÜRNER *WeldControl* functions

Automatic Data logging	1000
Data input	Barcode reader pen, scanner (optional), manual through an alphanumeric keypad, transponder (optional)
Welding monitoring system	Welding pressure, welding time, ambient temperature, memory control, device temperature, heating element temperature
Traceability pursuant to ISO 12176-2/4	Commission number, 32 characters alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1st additional data (user-determined), 20 characters alphanumeric 2nd additional data (user-determined), 15 characters alphanumeric, ISO data: fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number, installing company, inventory number
Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request
Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with HÜRNER database system (DataWork)

Display	LED backlit display (4 rows x 20 characters), 5 mm font size, welding diagram with progress LED's
Certification/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Automode, manual welding parameter input, pressure gauge function
Hydraulic	Only one power supply required Automatic heating plate temperature setting to national standards Hydraulics packaged in a sealed sheet metal case with a total weight of only 19.5 kg Max. pressure: 130 bar
Manufacturer warranty	12 months

High-spec and durable semi-automated welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 40 - 315 mm with various nominal sizes.

The machine ships with a totally sealed ***WeldControl*** hydraulic controller of rated ingress protection IP54, for operating pressures of up to 130 bar. Both the heating element and the facing tool are connected to the ***WeldControl*** hydraulic controller, which means that no additional distribution box is needed.
The ***WeldControl*** system combines manual butt welding, automatic heating element temperature control, and ISO-compliant report generation into one single unit weighing only 19.5 kg.

Component traceability data, pipe material, size, and wall thickness/SDR can all be selected in very intuitive user menus. The ***WeldControl*** system computes all welding pressures and welding times in compliance with various national standards (e.g., DVS, WIS, UNI, etc.), and monitors and displays them on the screen for the welder's attention. Data transfer is possible via two USB interfaces.

The 4th clamp of the of the 160 mm, 250 mm and the 315 mm basic machine frame can be removed by simply loosening three bolts, in order to joint components at spots that are hard to reach or to work with tees and other fittings.

The facing tool with an integrated micro-safety switch is driven via a chain by a high-quality drive unit. The precision heating element ships with an extraordinarily robust anti-stick coating.

All components ship under HÜRNER 's manufacturer warranty!

Technical specifications	160 mm	200 mm	250 mm	315 mm
Operating range	40 - 160 mm	63 - 200 mm	(63)(2) /75 - 250	90 - 315 mm
Power supply	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE
Rated power	1.82 kW	3.20 kW	3.54 kW	3.64 kW
Overall weight of machine	61 kg	72 kg	106 kg	160 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	2.498 cm²	3.52 cm²	5.105 cm²	5.890 cm²
Operating pressure range	0 - 130 bar	0 - 130 bar	0 - 130 bar	0 - 130 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	40, 50, 63, 75, 90, 110, 125, 140	63, 75, 90, 110, 125, 140, 160, 180	63(2), 75, 90, 110, 125, 140, 160, 180, 200, 225 welding neck support jumping heating plate	90, 110, 125, 140, 160, 180, 200, 225, 250, 280 welding neck support jumping heating plate
4th clamp removable	√	–	√	√
WeldControl hydraulics	√	√	√	√
Basic machine	√	√	√	√
Facing tool with microswitch	√	√	√	√
Heating element PTFE coated	√	√	√	√
Carrying case	√	√	√	√
HÜRNER transport box for reducers and machine	√(2)	√(2)	√(2)	√(2)

(2) - Optional

160/200/250/315

The HÜRNER *Manual* functions

Welding monitoring system	Heating element temperature
Display	7-Segment display, 10 mm font size
Certification /Quality / Ingress Protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Hydraulic	Only one power supply required Digital heating element temperature control adjustable on the hydraulic unit Hydraulics packaged in a sealed sheet metal case with a total weight of only 19.5 kg Max pressure: 130 bar Precise, maintenance free pressure display of the welding pressure Hydraulics with SPG2000 Data Logger • 160 bar pressure sensor with the hydraulic block unit • Data logger attached with an industrial strength bracket suitable for construction site use • Pressure and temperature connections with very short cables directly from the hydraulic unit • Data logger power supplied directly from hydraulic unit power socket
Manufacturer warranty	12 months

High-spec and durable manually operated welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 40 - 315 mm with various nominal sizes.

The machine ships with a totally sealed hydraulic controller of rated ingress protection IP54, for operating pressures of up to 130bar, with digital heating element temperature control. Both the heating element and the facing tool are connected to the hydraulic controller, which means that no additional distribution box is needed.

The 4th clamp of the 160 mm, 250 mm and the 315 mm basic machine frame can be removed by simply loosening three bolts, in order to joint components at spots that are hard to reach or to work with tees and other fittings.
The facing tool with an integrated micro-safety switch is driven via a chain by a high-quality drive unit. The precision heating element ships with an extraordinarily robust anti-stick coating.

All Manual butt-welding machines can be upgraded easily with the ***SPG2000*** or ***SPG2000 Basic*** unit for displaying, monitoring and recording welding parameters (see detailed description on page 25).

All components ship under HÜRNER's manufacturer warranty!

Technical specifications	160 mm	200 mm	250 mm	315 mm
Operating range	40 - 160 mm	63 - 200 mm	(63)[2] /75 - 250 mm	90 - 315 mm
Power supply	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE	230 V, 50 Hz, 1P+N+PE
Rated power	1.82 kW	3.20 kW	3.54 kW	3.64 kW
Overall weight of machine	61 kg	72 kg	106 kg	160 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	2.498 cm^2	3.52 cm^2	5.105 cm^2	5.890 cm^2
Operating pressure range	0 - 130bar	0 - 130bar	0 - 130bar	0 - 130bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	40, 50, 63, 75, 90, 110, 125, 140	63, 75, 90,110, 125, 140, 160, 180	63[2], 75, 90,110, 125, 140, 160, 180, 200, 225 welding neck support jumping heating plate	90, 110, 125, 140, 160, 180, 200, 225, 250, 280 welding neck support jumping heating plate
4th clamp removable	√	–	√	√
Manual hydraulics	√	√	√	√
Basic machine	√	√	√	√
Facing tool with microswitch	√	√	√	√
Heating element PTFE coated	√	√	√	√
Carrying case	√	√	√	√
HÜRNER transport box for reducers and machine	√[2]	√[2]	√[2]	√[2]

[2] - Optional

Part numbers for 160 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 160 ECO+ incl. reducers. O.D. 40 -140 mm	106,10	200-700-160
Set HÜRNER CNC 160 ECO incl. reducers. O.D. 40 - 140 mm	105,10	200-701-160
Set HÜRNER 160 WeldControl incl. reducers. O.D 40 - 140 mm	79,00	200-702-160
Set HÜRNER 160 Manual and SPG incl. reducers. O.D 40 - 140 mm	84,00	200-703-160
Set HÜRNER 160 Manual incl. reducers. O.D 40 - 140 mm	79,00	200-704-160
Hydraulic incl. CNC Control CNC ECO+, 230 V, 550 W	45,50	200-600-059
Hydraulic incl. CNC Control CNC ECO, 230 V, 550 W	45,00	200-600-056
WeldControl 2000 Hydraulic, 230 V, 370 W	19,50	200-617-355
Manual Hydraulic with SPG Device, 230 V, 370 W	19,50	200-614-315
Manual Hydraulic, 230 V, 370 W	19,50	200-615-315
Basic machine O.D. 160 mm CNC ECO+	27,50	200-603-160
Basic machine O.D. 160 mm CNC ECO	27,00	200-602-160
Basic machine O.D. 160 mm WeldControl/Manual (SPG)	26,50	200-601-160
Facing tool, 230 V, 450 W	7,50	200-612-160
Heating element, 230 V, 1000 W	3,60	200-611-160
Carrying case	7,00	200-613-160
HÜRNER transport box incl. storage space for reducers	-,-	200-600-088

Reducer inserts, extra wide	Weight, kg	P/N
O.D. 40	2,90	200-040-160
O.D. 50	2,70	200-050-160
O.D. 63	2,60	200-063-160
O.D. 75	2,50	200-075-160
O.D. 90	2,30	200-090-160
O.D. 110	2,20	200-110-160
O.D. 125	1,80	200-125-160
O.D. 140	1,50	200-140-160
Reducer set (O.D. 40 - O.D. 140)	18,50	200-000-160
Special inserts for non-standard dimensions	-.-	200-315-001

Facing tool blade — *P/N 200-600-033*

HÜRNER transport box — *P/N 200-600-088*

DataWork software — *P/N 216-080-505*

Part numbers for 200 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 200 ECO+ incl. reducers. O.D. 63 - 180 mm	151,00	200-700-200
Set HÜRNER CNC 200 ECO incl. reducers. O.D. 63 - 180 mm	150,50	200-701-200
Set HÜRNER 200 WeldControl incl. reducers. O.D. 63 - 180 mm	124,00	200-702-200
Set HÜRNER 200 Manual and SPG incl. reducers. O.D. 63 - 180 mm	129,00	200-703-200
Set HÜRNER 200 Manual incl. Reducers. O.D. 63 - 180 mm	124,00	200-704-200
Hydraulic incl. CNC Control CNC ECO+, 230 V, 550 W	45,50	200-600-059
Hydraulic incl. CNC Control CNC ECO, 230 V, 550 W	45,00	200-600-056
WeldControl 2000 Hydraulic, 230 V, 370 W	19,50	200-617-355
Manual Hydraulic with SPG Device, 230 V, 370 W	19,50	200-614-315
Manual Hydraulic, 230 V, 370 W	19,50	200-615-315
Basic machine O.D. 200 mm CNC ECO +	39,00	200-603-200
Basic machine O.D. 200 mm CNC ECO	38,50	200-602-200
Basic machine O.D. 200 mm WeldControl/Manual (SPG)	38,00	200-601-200
Facing tool, 230 V, 650 W	11,00	200-612-200
Heating element, 230 V, 1000 W	7,70	200-611-200
Carrying case	7,40	200-613-200
HÜRNER transport box incl. storage space for reducers	-,-	200-600-089

Reducer inserts, extra wide	Weight, kg	P/N
O.D. 63	6,60	200-063-200
O.D. 75	6,40	200-075-200
O.D. 90	6,00	200-090-200
O.D. 110	5,50	200-110-200
O.D. 125	5,00	200-125-200
O.D. 140	4,40	200-140-200
O.D. 160	3,50	200-160-200
O.D. 180	2,60	200-180-200
Reducer set (O.D. 63 - O.D. 180)	40,00	200-000-200
Special inserts for non-standard dimensions	-.-	200-315-001

Facing tool blade — *P/N 200-600-038*

HÜRNER-transport box — *P/N 200-600-089*

DataWork software — *P/N 216-080-505*

Part numbers for 250 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 250 ECO+ incl. reducers. O.D. 75 - 225 mm	185,00	200-700-250
Set HÜRNER CNC 250 ECO incl. reducers. O.D. 75 - 225 mm	184,50	200-701-250
Set HÜRNER 250 WeldControl incl. reducers. O.D. 75 - 225 mm	158,00	200-702-250
Set HÜRNER 250 Manual and SPG incl. reducers. O.D. 75 - 225 mm	163,00	200-703-250
Set HÜRNER 250 Manual incl. reducers. O.D. 75 - 225 mm	158,00	200-704-250
Hydraulic incl. CNC Control CNC ECO+, 230 V, 550 W	45,50	200-600-059
Hydraulic incl. CNC Control CNC ECO, 230 V, 550 W	45,00	200-600-056
WeldControl 2000 Hydraulic, 230 V, 370 W	19,50	200-617-355
Manual Hydraulic with SPG Device, 230 V, 370 W	19,50	200-614-315
Manual Hydraulic, 230 V, 370 W	19,50	200-615-315
Basic machine O.D. 250 mm CNC ECO +	55,00	200-603-250
Basic machine O.D. 250 mm CNC ECO	54,50	200-602-250
Basic machine O.D. 250 mm WeldControl/Manual (SPG)	54,00	200-601-250
Facing tool, 230 V, 740 W	15,00	200-612-250
Heating element, 230 V, 2000 W	8,00	200-611-250
Carrying case	7,00	200-613-250
HÜRNER transport box incl. storage space for reducers	-,-	200-600-090

Reducer inserts, extra wide	Weight, kg	P/N
Welding neck support	7,20	200-604-250
O.D. 75	8,40	200-075-250
O.D. 90	8,00	200-090-250
O.D. 110	7,60	200-110-250
O.D. 125	7,10	200-125-250
O.D. 140	6,90	200-140-250
O.D. 160	6,00	200-160-250
O.D. 180	5,50	200-180-250
O.D. 200	4,80	200-200-250
O.D. 225	3,70	200-225-250
Reducer set (O.D. 75 - O.D. 225)	58,00	200-000-250
Special inserts for non-standard dimensions	-.-	200-315-001

Facing tool blade — *P/N 200-600-034*

HÜRNER transport box — *P/N 200-600-090*

Jumping heating plate — *P/N 200-606-250*

Welding neck support — *P/N 200-604-250*

Part numbers for 315 mm model version

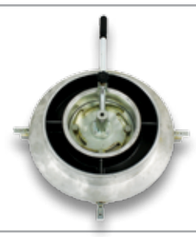
Description	Weight, kg	P/N
Set HÜRNER CNC 315 ECO+ incl. reducers. O.D. 90 - 280 mm	327,50	200-700-315
Set HÜRNER CNC 315 ECO incl. reducers. O.D. 90 - 280 mm	327,00	200-701-315
Set HÜRNER 315 WeldControl incl. reducers. O.D. 90 - 280mm	300,50	200-702-315
Set HÜRNER 315 Manual and SPG incl. reducers. O.D. 90 - 280 mm	305,50	200-703-315
Set HÜRNER 315 Manual incl. reducers. O.D. 90 - 280mm	299,50	200-704-315
Hydraulic incl. CNC Control CNC ECO+, 230 V, 550 W	45,50	200-600-059
Hydraulic incl. CNC Control CNC ECO, 230 V, 550 W	45,00	200-600-056
WeldControl 2000 Hydraulic, 230 V, 370 W	19,50	200-617-355
Manual Hydraulic with SPG Device, 230 V, 370 W	19,50	200-614-315
Manual Hydraulic, 230 V, 370 W	19,50	200-615-315
Basic machine O.D. 315 mm CNC ECO +	100,00	200-603-315
Basic machine O.D. 315 mm CNC ECO	99,50	200-602-315
Basic machine O.D. 315 mm WeldControl / Manual (SPG)	99,00	200-601-315
Facing tool, 230 V, 740 W	21,00	200-612-315
Heating element, 230 V, 2500 W	13,00	200-611-315
Carrying case	16,00	200-613-315
HÜRNER transport box incl. storage space for reducers	-,-	200-600-091

Reducer inserts, extra wide	Weight, kg	P/N
Welding neck support	11,30	200-604-315
O.D. 90	16,00	200-090-315
O.D. 110	15,50	200-110-315
O.D. 125	15,00	200-125-315
O.D. 140	14,50	200-140-315
O.D. 160	14,00	200-160-315
O.D. 180	13,30	200-180-315
O.D. 200	12,50	200-200-315
O.D. 225	11,50	200-225-315
O.D. 250	10,50	200-250-315
O.D. 280	9,00	200-280-315
Reducer set (O.D. 90 - O.D. 280)	132,00	200-000-315
Special inserts for non-standard dimensions	-.-	200-315-001

Facing tool blade — *P/N 200-600-035*

HÜRNER-transport box — *P/N 200-600-091*

Jumping heating plate — *P/N 200-606-315*



Welding neck support — *P/N 200-604-315*

355/500/630

The HÜRNER *CNC ECO* functions

Automatic Data logging	10000
Data input	Transponder (optional bar code reader pen or scanner), manual through an alphanumeric keypad
Welding monitoring system	Welding pressure, welding time, ambient temperature, input voltage, memory control, device temperature, service indicator(1), heating element temperature, carriage distance sensing(1)
Traceability pursuant to ISO 12176-2/4	Commission number, 32 characters alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1st additional data (user-determined), 20 characters alphanumeric 2nd additional data (user-determined), 15 characters alphanumeric, ISO data(1): fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number(1), installing company(1), inventory number(1)
Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request

Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with HÜRNER database system (DataWork), PDF format
Display	LED backlit display (4 rows x 20 characters), 8 mm font size, welding diagram with progress LED's
Certification/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Automode, manual welding parameter input
Manufacturer warranty	12 months

(1) - Only on ***CNC ECO*** + machines

High-spec and durable CNC welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 125 - 630 mm with various nominal sizes.

The machine ships with a totally sealed CNC hydraulic controller of rated ingress protection IP54, for operating pressures of up to 160 bar. Both the heating element and the facing tool are connected to the CNC hydraulic controller.

From the CNC hydraulic controller itself to the possibility to enter traceability data under the most recent ISO standard, taking in a fully self-monitoring welding process along the way, everything in a HÜRNER ***CNC ECO*** machine is designed to deliver maximum results for optimum effort at top-level user-friendliness. The ***ECO+*** model versions of the series ship with ***HDC*** – ***H***ürner ***D***istance ***C***ontrol – for utmost accuracy of the welding process. This carriage movement monitor reliably senses if the pipes are properly faced and their alignment is within tolerance, if the bead forms correctly, and if the distance the carriage travels during fusion is as expected, which is the key indicator of joint quality.
Both component traceability data and pipe material, size, and wall thickness as well as SDR ratios can be selected in intuitive menus or entered by reading and decoding them automatically from a bar code. Of course, this is also true of welding processes with the ***ECO+*** model versions, using pipe codes. Welding process are performed and monitored automatically and recorded to the internal memory by the ***CNC ECO*** Line machines. Two interfaces - three destinations: all HÜRNER ***CNC ECO*** machines features two USB interfaces that enable data transfer to various destinations, to a USB stick, a USB-compatible printer or to a PC with HÜRNER 's database management software DataWork.

From version ***ECO*** 2.0, all CNC-machines are available with the option of a transponder operator identification system, PDF format reports and battery operation during the cooling phase.

All components ship under HÜRNER 's manufacturer warranty!

Technical specifications	355 mm	500 mm	630 mm
Operating range	125 - 355 mm	200 -500 mm	(315) 355 – 630 mm
Power supply	230V, 50Hz, 1P+N+PE 400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE
Rated power	10.9 kW	8.32 kW	11.40 kW
Overall weight of machine	225 kg	352 kg	561 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	14.130 cm^2	22.384 cm^2	43.982 cm^2
Operating pressure range	0 - 160 bar	0 - 160 bar	0 - 160 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	125, 140, 160, 180, 200, 225, 250, 280, 315, welding neck support	200,225,250,280,315, 355,400,450 welding neck support	(315), 355, 400, 450, 500, 560 welding neck support
4th clamp removable	–	√	–
CNC hydraulic controller	√	√	√
Basic machine	√	√	√
Facing tool with microswitch	√	√	√
Heating element PTFE coated	√	√	√
Carrying case	√	√	√
HÜRNER transport box for reducers and machine	–	–	–

355/500/630

The HÜRNER *WeldControl* functions

Automatic data logging	1000
Data input	Barcode reader pen, scanner (optional), manual through an alphanumeric keypad, transponder (optional)
Welding monitoring system	Welding pressure, welding time, ambient temperature, memory control, device temperature, heating element temperature
Traceability pursuant to ISO 12176-2/4	Commission number, 32 characters alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1st additional data (user-determined), 20 characters alphanumeric 2nd additional data (user-determined), 15 characters alphanumeric, ISO data: fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number, installing company, inventory number
Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request
Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with HÜRNER database system (DataWork)
Display	LED backlit display (4 rows x 20 characters), 5 mm font size, welding diagram with progress LED's

Certification/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Automode, manual welding parameter input, pressure gauge function
Hydraulic	Only one power supply required Automatic heating plate temperature setting to national standards Hydraulics packaged in a sealed sheet metal case with a total weight of only 38 kg Max. pressure: 160 bar
Manufacturer warranty	12 months

High-spec and durable semi-automated welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 125 - 630 mm with various nominal sizes.

The machine ships with a totally sealed ***WeldControl*** hydraulic controller of rated ingress protection IP54, for operating pressures of up to 160 bar. Both the heating element and the facing tool are connected to the ***WeldControl*** hydraulic controller, which means that no additional distribution box is needed.

The ***WeldControl*** system combines manual butt welding, automatic heating element temperature control, and ISO-compliant report generation into one single unit weighing only 38 kg.

Component traceability data, pipe material, size, and wall thickness/SDR can all be selected in very intuitive user menus. The ***WeldControl*** system computes all welding pressures and welding times in compliance with various national standards (e.g., DVS, WIS, UNI, etc.), monitors and displays them on the screen to the welder's attention. Data transfer is possible via two USB interfaces.

The 4th clamp of the 500 mm basic machine frame can be removed by simply loosening three bolts, in order to joint components at spots that are hard to reach or to work with tees and other fittings.

The facing tool with an integrated micro-safety switch is driven via a chain by a high-quality drive unit. The precision heating element ships with an extraordinarily robust anti-stick coating.

All components ship under HÜRNER 's manufacturer warranty!

Technical specifications	355 mm	500 mm	630 mm
Operating range	125 - 355 mm	200 - 500 mm	(315) 355 - 630 mm
Power supply	230V, 50Hz, 1P+N+PE 400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE
Rated power	10.9 kW	8.32 kW	11.40 kW
Overall weight of machine	225 kg	352 kg	561 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	14.130 cm²	22.384 cm²	43.982 cm²
Operating pressure range	0 - 160 bar	0 - 160 bar	0 - 160 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	125, 140, 160, 180, 200, 225, 250, 280, 315, welding neck support	200,225,250,280, 315, 355,400,450 welding neck support	(315), 355, 400, 450, 500, 560 welding neck support
4th clamp removable	–	√	–
WeldControl hydraulics	√	√	√
Basic machine	√	√	√
Facing tool with microswitch	√	√	√
Heating element PTFE coated	√	√	√
Carrying case	√	√	√
HÜRNER transport box for reducers and machine	–	–	–

355/500/630

The HÜRNER *Manual* functions

Welding monitoring system	Heating element temperature
Display	7-Segment display, 10mm font size
Certification/Quality/Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Hydraulic	Only one power supply required Digital heating element temperature control adjustable on the hydraulic unit Hydraulics packaged in a sealed sheet metal case with a total weight of only 38 kg Max pressure: 160 bar Precise, maintenance free pressure display of the welding pressure Hydraulics with SPG2000 Data Logger • 160 bar pressure sensor with the hydraulic block unit • Data logger attached with an industrial strength bracket suitable for construction site use • Pressure and temperature connections with very short cables directly from the hydraulic unit • Data logger power supplied directly from hydraulic unit power socket
Manufacturer warranty	12 months

High-spec and durable manually operated welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 125 - 630 mm with various nominal sizes.

The machine ships with a totally sealed hydraulic controller of rated ingress protection IP54, for operating pressures of up to 160 bar, with digital heating element temperature control. Both the heating element and the facing tool are connected to the hydraulic controller, which means that no additional distribution box is needed.

The 4th clamp of the 500 mm basic machine frame can be removed by simply loosening three bolts, in order to joint components at spots that are hard to reach or to work with tees and other fittings. The facing tool with an integrated micro-safety switch is driven via a chain by a high-quality drive unit. The precision heating element ships with an extraordinarily robust anti-stick coating.

All HÜRNER Manual butt-welding machines can be upgraded easily with the ***SPG2000*** or ***SPG2000*** Basic unit for displaying, monitoring and recording welding parameters (see detailed description on page 25).

All components ship under HÜRNER 's manufacturer warranty!

Technical specifications	355 mm	500 mm	630 mm
Operating range	125 - 355 mm	200 - 500 mm	(315) 355 - 630 mm
Power supply	230V, 50Hz, 1P+N+PE 400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE
Rated power	10.9 kW	8.32 kW	11.40 kW
Overall weight of machine	225 kg	352 kg	561 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	14.130 cm²	22.384 cm²	43.982 cm²
Operating pressure range	0 - 160 bar	0 - 160 bar	0 - 160 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	125, 140, 160, 180, 200, 225, 250, 280, 315 welding neck support	200,225,250,280,315, 355,400,450 welding neck support	(315), 355, 400, 450, 500, 560 welding neck support
4th clamp removable	–	√	–
Manual hydraulics	√	√	√
Basic machine	√	√	√
Facing tool with microswitch	√	√	√
Heating element PTFE coated	√	√	√
Carrying case	√	√	√
HÜRNER transport box for reducers and machine	–	–	–

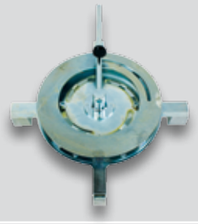
Part numbers for 355 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 355 ECO+ incl. reducers. O.D. 125 - 315 mm	240,50	200-700-355
Set HÜRNER CNC 355 ECO incl. reducers. O.D. 125 - 315 mm	240,00	200-701-355
Set HÜRNER 355 WeldControl incl. reducers. O.D. 125 - 315 mm	225,00	200-702-355
Set HÜRNER 355 Manual and SPG incl. reducers. O.D. 125 - 315 mm	230,00	200-703-355
Set HÜRNER 355 Manual incl. reducers. O.D. 125 - 315 mm	225,00	200-704-355
Hydraulic incl. CNC Control CNC ECO+, 400 V, 1500 W	53,50	200-600-062
Hydraulic incl. CNC Control CNC ECO, 400 V, 1500 W	53,00	200-600-057
WeldControl 2000 Hydraulic, 400 V, 1500 W	38,00	200-617-630
Manual Hydraulic with SPG Device, 400 V, 1500 W	38,00	200-614-630
Manual Hydraulic, 400 V, 1500 W	38,00	200-615-630
Basic machine O.D. 355 mm CNC ECO+	100,00	200-603-355
Basic machine O.D. 355 mm CNC ECO	100,00	200-602-355
Basic machine O.D. 355 mm WeldControl/Manual (SPG)	100,00	200-601-355
Facing tool, 380 V, 900 W	38,00	200-612-355
Heating element, 380 V, 3750 W	19,00	200-611-355
Carrying case	25,00	200-613-355

Reducer inserts, extra wide	Weight, kg	P/N
O.D. 125	8,50	200-125-355
O.D. 140	8,40	200-140-355
O.D. 160	8,30	200-160-355
O.D. 180	8,30	200-180-355
O.D. 200	8,30	200-200-355
O.D. 225	8,20	200-225-355
O.D. 250	8,10	200-250-355
O.D. 280	8,10	200-280-355
O.D. 315	8,00	200-315-355
Reducer set (O.D. 125 - O.D. 315)	74,30	200-000-355
Special inserts for non-standard dimensions	-.-	200-630-001

Facing tool blade

P/N 200-600-043



Welding neck support

P/N 200-604-315

DataWork software

P/N 216-080-505

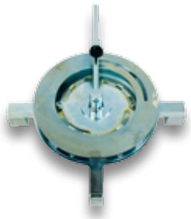
Part numbers for 500 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 500 ECO+ incl. reducers. O.D. 200 - 450 mm	669,50	200-700-500
Set HÜRNER CNC 500 ECO incl. reducers. O.D. 200 - 450 mm	668,50	200-701-500
Set HÜRNER 500 WeldControl incl. reducers. O.D. 200 - 450 mm	653,00	200-702-500
Set HÜRNER 500 Manual and SPG incl. reducers. O.D. 200 - 450 mm	658,00	200-703-500
Set HÜRNER 500 Manual incl. reducers. O.D. 200 - 450 mm	653,00	200-704-500
Hydraulic incl. CNC Control CNC ECO+, 400 V, 1500 W	53,50	200-600-062
Hydraulic incl. CNC Control CNC ECO, 400 V, 1500 W	53,00	200-600-057
WeldControl 2000 Hydraulic, 400 V, 1500 W	38,00	200-617-630
Manual Hydraulic with SPG Device, 400 V, 1500 W	38,00	200-614-630
Manual Hydraulic, 400 V, 1500 W	38,00	200-615-630
Basic machine O.D. 500 mm CNC ECO+	198,00	200-603-500
Basic machine O.D. 500 mm CNC ECO	197,50	200-602-500
Basic machine O.D. 500 mm WeldControl/Manual (SPG)	197,00	200-601-500
Facing tool, 380 V, 1830 W	62,00	200-612-500
Heating element, 380 V, 5000 W	25,00	200-611-500
Carrying case	47,00	200-613-500

Reducer inserts, extra wide	Weight, kg	P/N
O.D. 200	46,00	200-200-500
O.D. 225	45,00	200-225-500
O.D. 250	43,00	200-250-500
O.D. 280	40,00	200-280-500
O.D. 315	36,00	200-315-500
O.D. 355	32,00	200-355-500
O.D. 400	24,00	200-400-500
O.D. 450	18,00	200-450-500
Reducer set (O.D. 200 - O.D. 450)	284,00	200-000-500
Special inserts for non-standard dimensions	-.-	200-630-001

Facing tool blade

P/N 200-600-036



Welding neck support

P/N 200-604-500

DataWork software

P/N 216-080-505

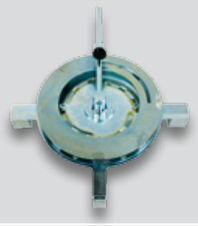
Part numbers for Model 630 mm

Description	Weight, kg	P/N	
Set HÜRNER CNC 630 ECO+ incl. reducers. O.D. 315 - 560 mm	907,50	200-700-630	○
Set HÜRNER CNC 630 ECO incl. reducers. O.D. 315 - 560 mm	906,50	200-701-630	○
Set HÜRNER 630 WeldControl incl. reducers. O.D. 315 - 560 mm	891,00	200-702-630	○
Set HÜRNER 630 Manual and SPG incl. reducers. O.D. 315 - 560 mm	896,00	200-703-630	○
Set HÜRNER 630 Manual incl. reducers. O.D. 315–560 mm	891,00	200-704-630	○
Hydraulic incl. CNC Control CNC ECO+, 400 V, 1500 W	53,50	200-600-062	○
Hydraulic incl. CNC Control CNC ECO, 400 V, 1500 W	53,00	200-600-057	○
WeldControl 2000 Hydraulic, 400 V, 1500 W	38,00	200-617-630	○
Manual Hydraulic with SPG Device, 400 V, 1500 W	38,00	200-614-630	○
Manual Hydraulic, 400 V, 1500 W	38,00	200-615-630	○
Basic machine O.D. 630 mm CNC ECO +	298,00	200-603-630	○
Basic machine O.D. 630 mm CNC ECO	297,50	200-602-630	○
Basic machine O.D. 630 mm WeldControl/Manual (SPG)	297,00	200-601-630	○
Facing tool, 400 V, 1830 W	143,00	200-612-630	○
Heating element, 400 V, 8100 W	43,00	200-611-630	○
Carrying case	40,00	200-613-630	○

Reducer inserts, extra wide	Weight, kg	P/N	
O.D. 315 (adapter)	48,00	200-315-630	○
O.D. 355	67,00	200-355-630	○
O.D. 400	62,00	200-400-630	○
O.D. 450	58,00	200-450-630	○
O.D. 500	53,00	200-500-630	○
O.D. 560	42,00	200-560-630	○
Reducer set (O.D. 315 - O.D. 560)	330,00	200-000-630	○
Special inserts for non-standard dimensions	-.-	200-630-001	○

Facing tool blade

P/N 200-600-037 ○



Welding neck support

P/N 200-604-630 ○

DataWork software

P/N 216-080-505 ○

The HÜRNER Data Recording Systems ***SPG2000*** and ***SPG2000 Basic*** provide simple and safe logging of butt welds. The units are specially designed for HÜRNER butt welding technology with new hydraulic systems. Of course both units are able to be used with other brands of welding equipment.

Both units are packaged in a strong sheet metal case suitable for construction site use and come with a powerful processor for the calculation, monitoring and logging of welds to international standards.

The welding data is stored internally and can be transferred, using the two USB ports, to either a USB mass storage, an external USB printer or directly onto a PC with the HÜRNER database software ***DataWork***.

The logger systems are delivered in a stylish and functional carry case with various clamps and a pressure transducer.

Furthermore the configuration of the unit is able to be customised, by the operator, for use with other brands of welding equipment.

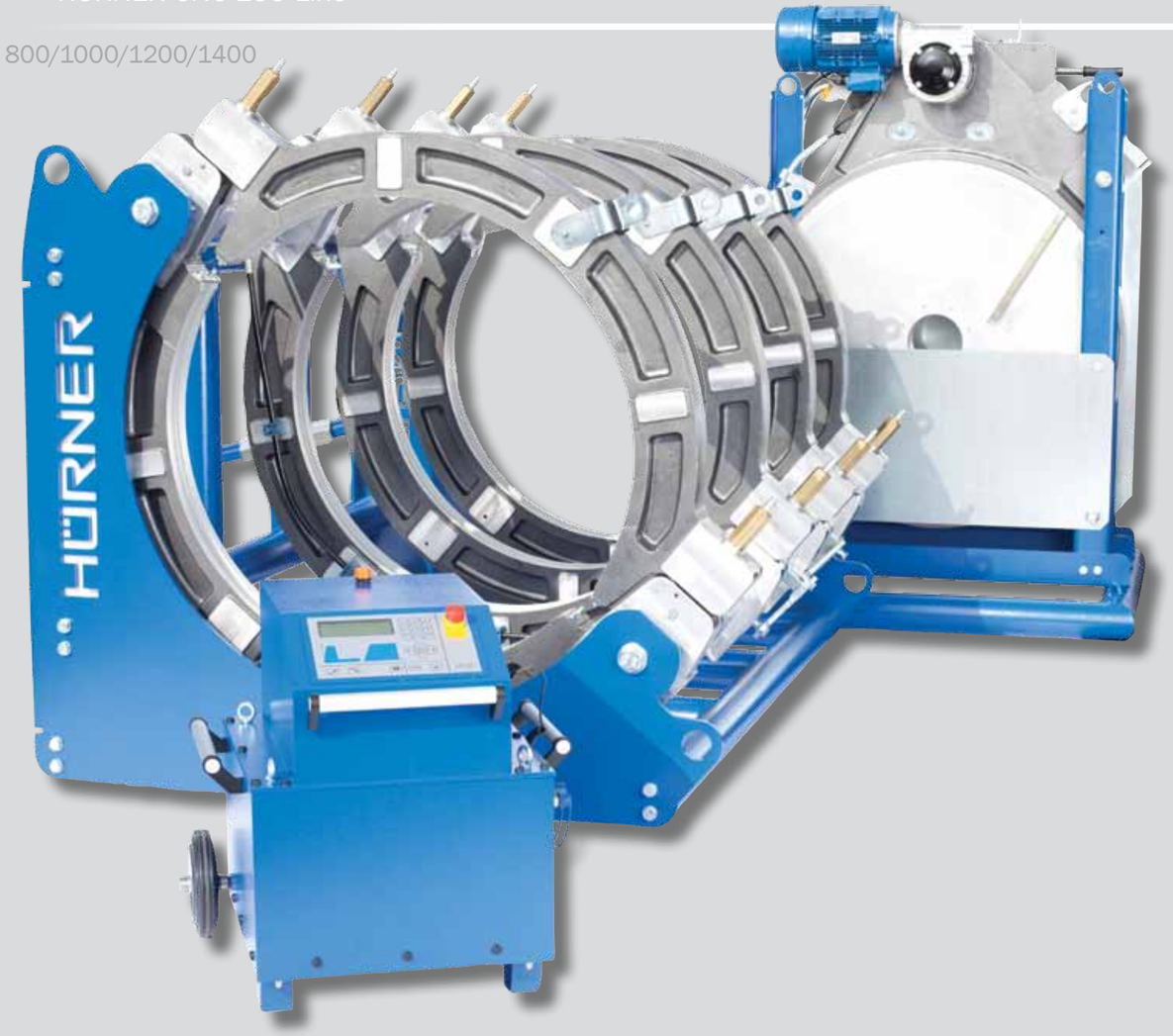
The HÜRNER *SPG2000 (Basic)* functions

Automatic data logging	1000
Data input	Barcode reader pen, scanner (optional), manual through an alphanumeric keypad, transponder (optional)
Welding monitoring system	Welding pressure, welding time, ambient temperature, memory control, device temperature, heating element temperature
Traceability pursant to ISO 12176-2/4	Commission number, 32 characters alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1st additional data (user-determined), 20 characters alphanumeric 2nd additional data (user-determined), 15 characters alphanumeric, ISO data: fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number, installing company, inventory number
Data logging	Set and actual values for: drag pressure, heating element temperature, heating pressure, bead build time, heat soak time, change over time, jointing pressure, cooling time

(1) - ***SPG2000*** only

Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request
Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with Hürner database system (DataWork), Mini-printer for use on the construction site (1)
Display	LED backlit display (4 rows x 20 characters), 8 mm font size, welding diagram with progress LED's
Certification/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Manual welding parameter input, selectable pressure sensor 100 bar or 250 bar, selectable temperature sensor PT100 or PT1000
Technical specs	Input Voltage : 100 V - 260 V Input Frequency: 40 Hz - 80 Hz Weight: ca. 5 kg Dimensions: W 240 x H 200 x D 250 mm Protection class: IP54
Manufacturer's warranty	12 months
P/N	SPG 2000 Basic: 200-500-000 SPG 2000: 200-500-001

800/1000/1200/1400



The HÜRNER *CNC ECO* functions

Automatic data logging	10000
Data input	Transponder (optional bar code reader pen or scanner), manual through an alphanumeric keypad
Welding monitoring system	Welding pressure, welding time, ambient temperature, input voltage, memory control, device temperature, service indicator(1), heating element temperature, carriage distance sensing(1)
Traceability pursuant to ISO 12176-2/4	Commission number, 32 characters alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1st additional data (user-determined), 20 characters alphanumeric 2nd additional data (user-determined), 15 characters alphanumeric, ISO data(1): fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number(1), installing company(1), inventory number(1)
Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request

Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with HÜRNER database system (DataWork), PDF format
Display	LED backlit display (4 rows x 20 characters), 8mm font size, welding diagram with progress LED's
Certification/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Automode, manual welding parameter input
Manufacturer warranty	12 months

(1) - Only on *CNC ECO* + machines

High-spec and durable CNC welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 500 - 1400 mm with various nominal sizes.

The machine ships with a totally sealed CNC hydraulic controller of rated ingress protection IP54, for operating pressures of up to 200 bar. Both the heating element and the facing tool are connected to the CNC hydraulic controller.

From the CNC hydraulic controller itself to the possibility to enter traceability data under the most recent ISO standard, taking in a fully self-monitoring welding process along the way, everything in a HÜRNER *CNC ECO* machine is designed to deliver maximum results for optimum effort at top-level user-friendliness.

The ***ECO+*** model versions of the series ship with ***HDC*** – ***H***ürner ***D***istance ***C***ontrol – for utmost accuracy of the welding process. This carriage movement monitor reliably senses if the pipes are properly faced and their alignment is within tolerance, if the bead forms correctly, and if the distance the carriage travels during fusion is as expected, which is the key indicator of joint quality. Both component traceability data and pipe material, size, and wall thickness as well as SDR ratios can be selected in intuitive menus or entered by reading and decoding them automatically from a bar code. Of course, this is also true of welding processes with the ***ECO+*** model versions, using pipe codes. Welding process are performed and monitored automatically and recorded to the internal memory by the ***CNC ECO*** Line machines.

Two interfaces - three destinations: all HÜRNER *CNC ECO* machines features two USB interfaces that enable data transfer to various destinations, to a USB stick, a USB-compatible printer or to a PC with HÜRNER's database management software DataWork.

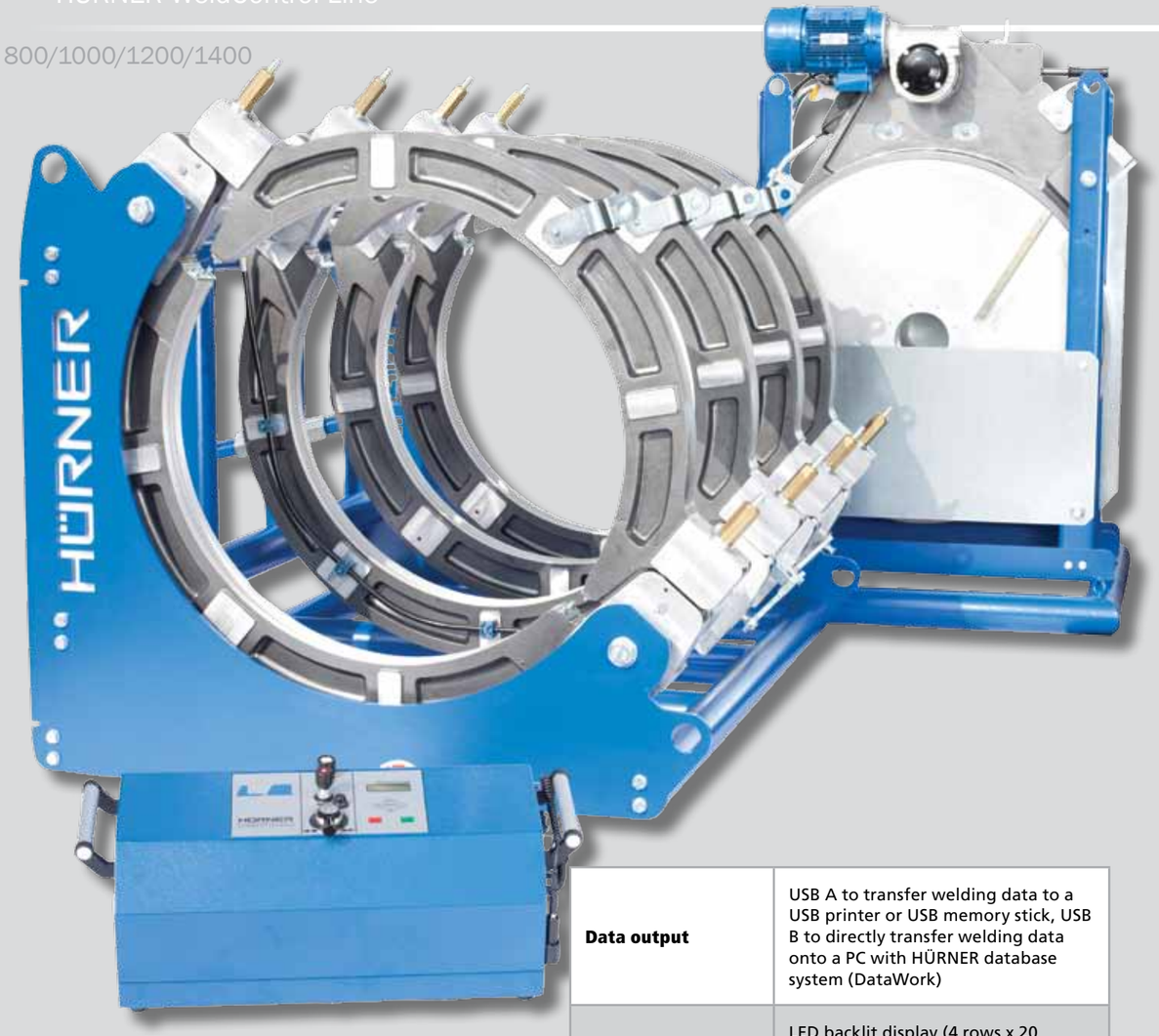
From version ***ECO*** 2.0, all CNC-machines are available with the option of a transponder operator identification system, PDF format reports and battery operation during the cooling phase.

All components ship under HÜRNER's manufacturer warranty!

Technical specs

	800 mm	1000 mm	1200 mm	1400 mm
Operating range	500 -800 mm	630 – 1000 mm	630 - 1200 mm	800 - 1400mm
Power supply	400 V, 50 Hz, 3P+N+PE	400V, 50 Hz, 3P+N+PE	400V, 50 Hz, 3P+N+PE	400V, 50 Hz, 3P+N+PE
Rated power	18.54 kW	22.60 kW	23.60 kW	47.6 kW
Overall weight of machine	1203 kg	1367 kg	1745 kg	3480 kg
Working temperature	170 - 280°C	170 - 280°C	170 - 280°C	170 - 280°C
Ambient temperature	-5 - + 50°C	-5 - + 50°C	-5 - + 50°C	-5 - + 50°C
Overall cylinder section	23.562 cm^2	29.83 cm^2	29.83 cm^2	69.08 cm^2
Operating pressure range	0 - 200 bar	0 - 200 bar	0 - 200 bar	0 - 200 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	500, 560, 630, 710 welding neck support	630, 710, 800, 900 welding neck support	630, 710, 800, 900,1000 welding neck support	800, 900, 1000, 1200 welding neck support
4th clamp removable	–	–	–	–
CNC hydraulic controller	√	√	√	√
Basic machine	√	√	√	√
Facing tool with microswitch	√	√	√	√
Heating element PTFE coated	√	√	√	√
Carrying case	√	√	√	√
HÜRNER transport box for reducers and machine	–	–	–	–

800/1000/1200/1400



The HÜRNER *WeldControl* functions

Automatic data logging	1000
Data input	Barcode reader pen, scanner (optional), manual through an alphanumeric keypad, transponder (optional)
Welding monitoring system	Welding pressure, welding time, ambient temperature, memory control, device temperature, heating element temperature
Traceability pursuant to ISO 12176-2/4	Commission number, 32 character alphanumeric, ISO-compliant welder code, HÜRNER welder code. 1. additional data (user-determined), 20 character alphanumeric 2. additional data (user-determined), 15 characters alphanumeric. IISO data: fitting code, 1st and 2nd pipe code, pipe length, weather details, joint number, installing company, inventory number
Welding standard	DVS, WIS, SEDIGAS, UNI and other standards upon request

Data output	USB A to transfer welding data to a USB printer or USB memory stick, USB B to directly transfer welding data onto a PC with HÜRNER database system (DataWork)
Display	LED backlit display (4 rows x 20 characters), 5 mm font size, welding diagram with progress LED's
Certification /Quality /Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request
Battery operation	Emergency power supply during the cooling phase (optional)
System settings	Automode, manual welding parameter input, pressure gauge function
Hydraulic	Only one power supply required Automatic heating plate temperature setting to national standards Hydraulics packaged in a sealed sheet metal case with a total weight of only 63 kg Max. pressure: 200 bar
Manufacturer warranty	12 months

High-spec and durable semi-automated welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 500 - 1400 mm with various nominal sizes.

The machine ships with a totally sealed ***WeldControl*** hydraulic controller of rated ingress protection IP54, for operating pressures of up to 200 bar. Both the heating element and the facing tool are connected to the ***WeldControl*** hydraulic controller, which means that no additional distribution box is needed.

The ***WeldControl*** system combines manual butt welding, automatic heating element temperature control, and ISO-compliant report generation into one single unit weighing only 63 kg.

Component traceability data, pipe material, size, and wall thickness/SDR can all be selected in very intuitive user menus. The ***WeldControl*** system computes all welding pressures and welding times in compliance with various national standards (e.g., DVS, WIS, UNI, etc.), monitors and displays them on the screen to the welder's attention. Data transfer is possible via two USB interfaces.

The facing tool with an integrated micro-safety switch is driven via a chain by a high-quality drive unit. The precision heating element ships with an extraordinarily robust anti-stick coating.

All components ship under HÜRNER's manufacturer warranty!

Technical specs	800 mm	1000 mm	1200 mm	1400 mm
Operating range	500 - 800 mm	630 - 1000 mm	630 - 1200 mm	800 -1400mm
Power supply	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE
Rated power	17.60 kW	21.64 kW	22.64 kW	47.6 kW
Overall weight of machine	1203 kg	1367 kg	1745 kg	3480 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 – 280 °C	170 - 280°C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50°C
Overall cylinder section	23.562cm²	29.83cm²	29.83cm²	69.08 cm²
Operating pressure range	0 - 200bar	0 - 200 bar	0 - 200bar	0 - 200bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	500, 560, 630, 710 welding neck support	630, 710, 800, 900 welding neck support	630, 710, 800, 900,1000 welding neck support	800, 900, 1000, 1200 welding neck support
4th clamp removable	–	–	–	–
WeldControl hydraulics	√	√	√	√
Basic machine	√	√	√	√
Facing tool with microswitch	√	√	√	√
Heating element PTFE coated	√	√	√	√
Carrying case	√	√	√	√
HÜRNER transport box for reducers and machine	–	–	–	–

800/1000/1200/1400

The HÜRNER *Manual* functions

Welding monitoring system	Heating element temperature
Display	7-Segment display, 10mm font size
Certification/Quality/ / Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional), WEEE Reg. No. DE 74849106
Hydraulic	Only one power supply required Digital heating element temperature control adjustable on the hydraulic unit Hydraulics packaged in a sealed sheet metal case with a total weight of only 63 kg Max pressure: 200 bar Precise, maintenance free pressure display of the welding pressure Hydraulics with SPG2000 Data Logger • 260 bar Pressure Sensor with the hydraulic block unit • Data logger attached with an industrial strength bracket suitable for construction site use • Pressure and temperature connections with very short cables directly from the hydraulic unit • Data logger power supplied directly from hydraulic unit power socket
Manufacturer warranty	12 months

High-spec and durable manually operated welding machine with heating element for butt welding of pipes and fittings made of PP, PE, and PVDF, for worksite and in-ditch applications, rated 500 - 1400 mm with various nominal sizes.

The machine ships with a totally sealed hydraulic controller of rated ingress protection IP54, for operating pressures of up to 200 bar, with digital heating element temperature control. Both the heating element and the facing tool are connected to the hydraulic controller, which means that no additional distribution box is needed.

The facing tool with an integrated micro-safety switch is driven via a chain by a high-quality drive unit. The precision heating element ships with an extraordinarily robust anti-stick coating.

All HÜRNER Manual butt-welding machines can be upgraded easily with the ***SPG2000*** or ***SPG2000*** Basic unit for displaying, monitoring and recording welding parameters (see detailed description on page 25).

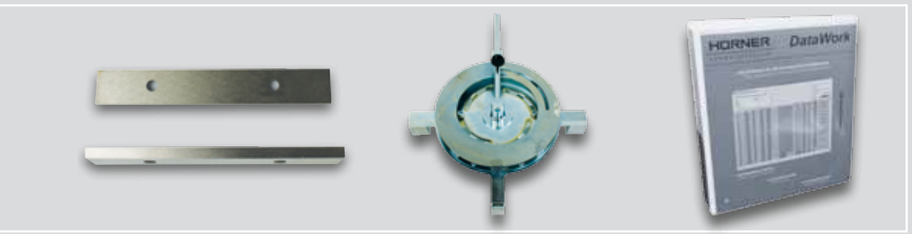
All components ship under HÜRNER's manufacturer warranty!

Technical specs	800 mm	1000 mm	1200 mm	1400 mm
Operating range	500 - 800 mm	630 - 1000 mm	630 - 1200 mm	800 - 1400 mm
Power supply	400V, 50Hz, 3P+N+PE	400V, 50Hz,, 3P+N+PE	400V, 50Hz, 3P+N+PE	400V, 50Hz, 3P+N+PE
Rated power	17.60 kW	21.64 kW	22.64 kW	47.6 kW
Overall weight of machine	1203 kg	1367 kg	1745 kg	3480 kg
Working temperature	170 - 280 °C	170 - 280 °C	170 - 280 °C	170 - 280 °C
Ambient temperature	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C	-5 - + 50 °C
Overall cylinder section	23.562 cm^2	29.83 cm^2	29.83 cm^2	69.08 cm^2
Operating pressure range	0 - 200 bar	0 - 200 bar	0 - 200 bar	0 - 200 bar
Materials	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Reducer inserts	500, 560, 630, 710 welding neck support	630, 710, 800, 900 welding neck support	630, 710, 800, 900,1000 welding neck support	800, 900, 1000, 1200 welding neck support
4th clamp removable	–	–	–	–
Manual hydraulics	√	√	√	√
Basic machine	√	√	√	√
Facing tool with microswitch	√	√	√	√
Heating element PTFE coated	√	√	√	√
Carrying case	√	√	√	√
HÜRNER transport box for reducers and machine	–	–	–	–

Part numbers for 800 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 800 ECO+ incl. reducers. O.D. 500 - 710 mm	1787,00	200-700-800
Set HÜRNER CNC 800 ECO incl. reducers. O.D.500 - 710 mm	1787,00	200-701-800
Set HÜRNER 800 WeldControl incl. reducers. O.D. 500 - 710 mm	1772,00	200-702-800
Set HÜRNER 800 Manual and SPG incl. reducers. O.D. 500 - 710 mm	1777,00	200-703-800
Set HÜRNER 800 Manual incl. reducers. O.D. 500 - 710 mm	1772,00	200-704-800
Hydraulic incl. CNC Control CNC ECO+, 400 V, 3600 W	78,00	200-600-072
Hydraulic incl. CNC Control CNC ECO, 400 V, 3600 W	78,00	200-600-071
WeldControl 2000 Hydraulic, 400 V, 2640 W	63,00	200-617-800
Manual Hydraulic with SPG Device, 400 V, 2640 W	63,00	200-614-800
Manual Hydraulic, 400 V, 2640 W	63,00	200-615-800
Basic machine O.D. 800 mm CNC ECO +	742,00	200-603-800
Basic machine O.D. 800 mm CNC ECO	740,00	200-602-800
Basic machine O.D. 800 mm WeldControl / Manual (SPG)	740,00	200-601-800
Facing tool, 400 V, 2940 W	220,00	200-612-800
Heating element, 400 V, 12000W	60,00	200-611-800
Carrying case	98,00	200-613-800

Reducer inserts, extra wide	Weight, kg	P/N
Welding neck support	140,00	200-604-800
O.D. 500	196,00	200-500-800
O.D. 560	172,00	200-560-800
O.D. 630	136,00	200-630-800
O.D. 710	85,00	200-710-800
Reducer set (O.D. 500 - O.D. 710)	589,00	200-000-800
Special inserts for non-standard dimensions	-.-	200-630-001



Facing tool blade — *P/N 200-600-039*

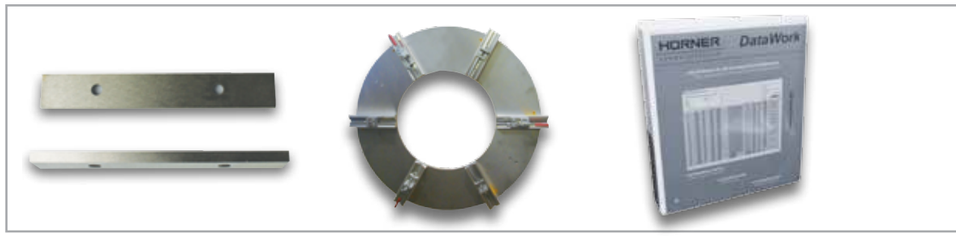
Welding neck support — *P/N 200-604-800*

DataWork software — *P/N 216-080-505*

Part numbers for 1000 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 1000 ECO+ incl. reducers. O.D. 630 - 900 mm	1922,00	200-703-100
Set HÜRNER CNC 1000 ECO incl. reducers. O.D. 630 - 900 mm	1920,00	200-700-100
Set HÜRNER 1000 WeldControl incl. reducers. O.D. 630 - 900 mm	1907,00	200-701-100
Set HÜRNER 1000 Manual and SPG incl. reducers. O.D. 630 - 900 mm	1912,00	200-704-100
Set HÜRNER 1000 Manual incl. reducers. O.D. 630 - 900 mm	1907,00	200-702-100
Hydraulic incl. CNC Control CNC ECO+, 400 V, 3600 W	78,00	200-600-072
Hydraulic incl. CNC Control CNC ECO, 400 V, 3600 W	78,00	200-600-071
WeldControl 2000 Hydraulic, 400 V, 2640 W	63,00	200-617-800
Manual Hydraulic with SPG Device, 400 V, 2640 W	63,00	200-614-800
Manual Hydraulic, 400 V, 2640 W	63,00	200-615-800
Basic machine O.D. 1000 mm CNC ECO +	792,00	200-603-100
Basic machine O.D. 1000 mm CNC ECO	790,00	200-602-100
Basic machine O.D. 1000 mm WeldControl / Manual (SPG)	790,00	200-601-100
Facing tool, 400 V, 4000 W	277,00	200-612-100
Heating element, 400 V, 15000 W	100,00	200-611-100
Carrying case	200,00	200-613-100

Reducer inserts, extra wide	Weight, kg	P/N
Welding neck support	98,00	200-604-100
O.D. 630	71,00	200-630-100
O.D. 710	80,00	200-710-100
O.D. 800	164,00	200-800-100
O.D. 900	160,00	200-900-100
Reducer set (O.D. 630 - O.D. 900)	475,00	200-000-100
Special inserts for non-standard dimensions	-.-	200-630-001



Facing tool blade — *P/N 200-600-031*

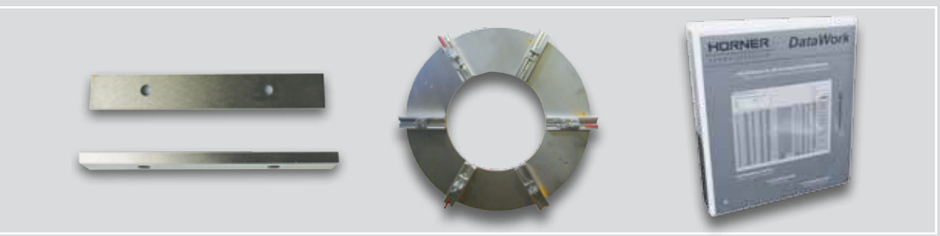
Welding neck support — *P/N 200-604-100*

DataWork software — *P/N 216-080-505*

Part numbers for 1200 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 1200 ECO+ incl. reducers. O.D. 630 - 1000 mm	2497,00	200-703-120
Set HÜRNER CNC 1200 ECO incl. reducers. O.D. 630 - 1000 mm	2494,00	200-700-120
Set HÜRNER 1200 WeldControl incl. reducers. O.D. 630 - 1000 mm	2482,00	200-701-120
Set HÜRNER 1200 Manual and SPG incl. reducers. O.D. 630 - 1000 mm	2487,00	200-704-120
Set HÜRNER 1200 Manual incl. Reducers. O.D. 630 - 1000 mm	2482,00	200-702-120
Hydraulic incl. CNC Control CNC ECO+, 400 V, 3600 W	78,00	200-600-072
Hydraulic incl. CNC Control CNC ECO, 400 V, 3600 W	78,00	200-600-071
WeldControl 2000 Hydraulic, 400 V, 2640 W	63,00	200-617-800
Manual Hydraulic with SPG Device, 400 V, 2640 W	63,00	200-614-800
Manual Hydraulic, 400 V, 2640 W	63,00	200-615-800
Basic machine O.D. 1200 mm CNC ECO +	1053,00	200-603-120
Basic machine O.D. 1200 mm CNC ECO	1050,00	200-602-120
Basic machine O.D 1200 mm WeldControl/Manual (SPG)	1050,00	200-601-120
Facing tool, 400 V, 4000 W	345,00	200-612-120
Heating element, 400 V, 16000 W	130,00	200-611-120
Carrying case	220,00	200-613-120

Reducer inserts, extra wide	Weight, kg	P/N
Welding neck support	140,00	200-604-120
O.D. 630	71,00	200-630-120
O.D. 710	80,00	200-710-120
O.D. 800	164,00	200-800-120
O.D. 900	160,00	200-900-120
O.D. 1000	156,00	200-120-120
Reducer set (O.D. 630 - O.D. 1000)	671,00	200-000-120
Special inserts for non-standard dimensions	-.-	200-630-001



Facing tool blade — *P/N 200-600-032*

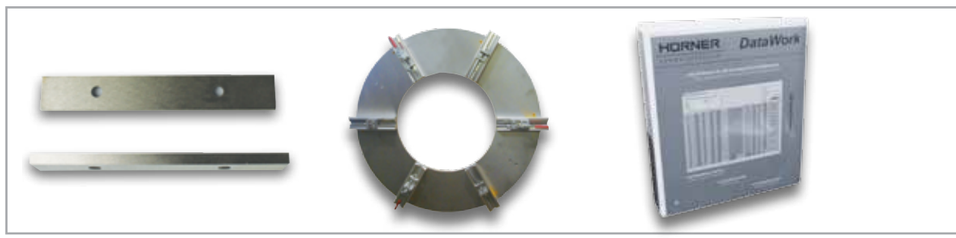
Welding neck support — *P/N 200-604-120*

DataWork software — *P/N 216-080-505*

Part numbers for 1400 mm model version

Description	Weight, kg	P/N
Set HÜRNER CNC 1400 ECO+ incl. reducers. O.D. 800 - 1200 mm	3400,00	200-703-140
Set HÜRNER CNC 1400 ECO incl. reducers. O.D. 800 - 1200 mm	3400,00	200-700-140
Set HÜRNER 1400 WeldControl incl. reducers. O.D. 800 - 1200 mm	3380,00	200-701-140
Set HÜRNER 1400 Manual and SPG incl. reducers. O.D. 800 - 1200 mm	3385,00	200-704-140
Set HÜRNER 1400 Manual incl. reducers. O.D. 800 - 1200 mm	3380,00	200-702-140
Hydraulic incl. CNC Control CNC ECO+, 400 V, 3600 W	78,00	200-600-072
Hydraulic incl. CNC Control CNC ECO, 400 V, 3600 W	78,00	200-600-071
WeldControl 2000 Hydraulic, 400 V, 2640 W	63,00	200-617-800
Manual Hydraulic with SPG Device, 400 V, 2640 W	63,00	200-614-800
Manual Hydraulic, 400 V, 2640 W	63,00	200-615-800
Basic machine O.D. 1400 mm CNC ECO +	2360,00	200-603-140
Basic machine O.D. 1400 mm CNC ECO	2360,00	200-602-140
Basic machine O.D 1400 mm WeldControl/Manual (SPG)	2360,00	200-601-140
Facing tool, 400 V, 4000 W	545,00	200-612-140
Heating element, 400 V, 16000 W	210,00	200-611-140
Carrying case	290,00	200-613-140

Reducer inserts, extra wide	Weight, kg	P/N
Welding neck support	140,00	200-604-120
O.D. 800	164,00	200-800-140
O.D. 900	160,00	200-900-140
O.D. 1000	156,00	200-120-140
O.D. 1200	150,00	200-122-140
Reducer set (O.D. 800 - O.D. 1200)	610,00	200-000-120
Special inserts for non-standard dimensions	-.-	200-630-001



Facing tool blade — *P/N 200-600-048*

Welding neck support — *P/N 200-604-120*

DataWork software — *P/N 216-080-505*

The lightweight future begins here

Future easy

Future easy

HÜRNER Electrofusion Welders

For more than 35 years...
The name HST 300 Line represents a family of products accounting for more than 20,000 units sold worldwide, which adds light weight and compact dimensions to highest-level performance. Even heater-coil electrofusion fittings larger than 2000 mm are processed without fail with this product line.

Whether you look at full interoperability with HÜRNER's pipeline grid management software, easy bar code reading with a scanning pen or handheld scanner or standard-compliant traceability, including geodata - with the HST 300 Line, you will find what you need for any welding application. Of this family, the Pricon model version has the most comprehensive set of features. Professional welding process control and welding parameter traceability are also enabled by the well-thought-out and worksite-proven Print model version. And the starter version, the Junior model without data recording, makes a difference by its total reliability and amazing welding performance.

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HST 300 Pricon+ /USB

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V, for sizes up to 1200 mm[1], with report generation.

Technical specifications HST 300 Pricon+ /USB

Automatic data logging	2000+
Welding range	up to 1200 mm[1]
Data input	Bar code scanning pen, optional scanner, manual input of numeric fitting code or welding voltage and welding time, remote start bar code
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input voltage, memory management, welding unit temperature, maintenance interval
Traceability pursuant to ISO 12176-3/4	Commission number, 32 alphanumeric characters, joint number related to commission number, welder ID code, ISO-compliant and HÜRNER code 1. (user-defined) additional data, 20 alphanumeric characters 2. (user-defined) additional data, 15 alphanumeric characters ISO data: 2nd fitting code, 1st and 2nd pipe code, weather conditions, inventory number, installing company geo-data per Gauß-Krüger (UTM), with an add-in system, report review
Data output	USB A for welding data transfer to USB-compatible printer or USB stick USB B for direct welding data transfer to a PC with HÜRNER's database software DataWork installed, PDF format

Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 8 mm
Output voltage	8 - 48 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with EUR-plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4,0 mm in adapter bag (further adapters optional, see page 48)
Weight	10 kg
Dimensions	W 236 x H 295 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-017

[1] - For instance, agru fittings

HÜRNER SCHWEISSTECHNIK

HST 300 Print+ /USB

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V, including ffor sizes up to 1200 mm[1], with report generation.

Technical specifications HST 300 Print+ /USB

Automatic data logging	1800
Welding range	up to 1200 mm[1]
Data input	Bar code scanning pen, optional scanner, manual input of numeric fitting code or welding voltage and welding time
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, maintenance interval
Traceability pursuant to ISO 12176-3/4	Commission number, 32 alphanumeric characters, welder ID code, ISO-compliant and HÜRNER code 1st (user-defined) additional data, 20 alphanumeric characters 2nd (user-defined) additional data, 15 alphanumeric characters, ISO data: 2nd fitting code, 1st and 2nd pipe code, weather conditions
Data output	USB A for welding data transfer to USB-compatible printer or USB stick USB B for direct welding data transfer to a PC with HÜRNER's database software DataWork installed, PDF format

Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 8 mm
Output voltage	8 - 48 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with EUR-plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4.0 mm in adapter bag (further adapters optional, see page 48)
Weight	16 kg
Dimensions	W 236 x H 295 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-113

[1] - For instance, agru fittings

HST 300 Print/USB and HST 300 Print 315/USB

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V, for sizes up to 1200 mm[1], with report generation.

Technical specifications HST 300 Print/USB

Automatic data logging	1580
Welding range	up to 1200 mm[1]
Data input	Bar code scanning pen, optional scanner
Weld monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, fault current, emergency off, maintenance interval
Traceability pursuant to ISO 12176-3/4	Commission number, 32 alphanumeric characters, welder ID code, ISO-compliant and HÜRNER code 1st (user-defined) additional data, 20 alphanumeric characters 2nd (user-defined) additional data, 15 alphanumeric characters
Data output	USB A for welding data transfer to USB-compatible printer or USB stick
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5 mm
Output voltage	8 - 48 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 Hz - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with EUR-plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4.0 mm in adapter bag (further adapters optional, see page 48)
Weight	16 kg
Dimensions	W 236 x H 295 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-002

Technical specifications HST 300 Print 315 /USB

Automatic data logging	500
Welding range	≤ 315 mm
Data input	Bar code scanning pen, optional scanner
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, fault current, emergency off, maintenance interval
Traceability pursuant to ISO 12176-3/4	Commission number, 32 alphanumeric characters, welder ID code, ISO-compliant, 1st (user-defined) additional data, 20 alphanumeric characters 2nd (user-defined) additional data, 15 alphanumeric characters
Data output	USB A for welding data transfer to USB-compatible printer or USB stick
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5 mm
Output voltage	8 - 48 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 Hz - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with EUR-plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4.0 mm in adapter bag (further adapters optional, see page 48)
Weight	16 kg
Dimensions	W 236 x H 295 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-016/USB interface 200-230-012/serial interface

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V, for sizes equal or smaller than 315 mm, with report generation.

[1] - For instance, agru fittings

HÜRNER SCHWEISSTECHNIK

HST 300 Junior and HST 300 Junior+

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V, for sizes up to 1200 mm[1].

Technical specifications HST 300 Junior

Automatic data logging	–
Welding range	up to 1200 mm[1]
Data input	Bar code scanning pen, optional scanner
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, welding unit temperature, fault current, emergency off, maintenance interval
Traceability	–
Data output	–
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5 mm
Output voltage	8 - 48 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 Hz - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with EUR-plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4.0 mm in adapter bag (further adapters optional, see page 48)
Weight	16 kg
Dimensions	W 236 x H 295 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-000

Technical specifications HST 300 Junior+

Automatic data logging	–
Welding range	up to 1200 mm[1]
Data input	Bar code scanning pen, optional scanner Manual input of numeric fitting code or welding voltage and welding time
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, welding unit temperature, fault current, emergency off, maintenance interval
Traceability	–
Data output	–
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5 mm
Output voltage	8 - 48 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 Hz - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with EUR-plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4.0 mm in adapter bag (further adapters optional, see page 48)
Weight	16 kg
Dimensions	W 236 x H 295 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-001

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V, for sizes up to 1200 mm[1].

[1] - For instance, agru fittings

HST 300 Manual and HST 300 Monofuse

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8V - 48V, including forfor sizes up to 1200mm[1].

Technical specification HST 300 Manual

Automatic data logging	– (optional)
Welding range	up to 1200mm[1]
Data input	Manual input of numeric fitting code or welding voltage and welding time
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, maintenance interval
Traceability	– (optional)
Data output	– (optional)
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5mm
Output voltage	8 - 48V
Output current	max. 110A
Input voltage	180V - 280V (230V), 110V/48V optional
Input frequency	40Hz - 70Hz
Input current	AC 16A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20°C to +60°C
Power cord	5m with EUR-plug
Welding cable	4m with 4.7mm connection terminals
Adapter	4.0mm in adapter bag (further adapters optional, see page 48)
Weight	16kg
Dimensions	W236 x H295 x D330mm
Manufacturer warranty	12 months
P/N	200-230-004

Technical specification HST 300 Monofuse

Automatic data logging	– (optional)
Welding range	up to 1200mm[1]
Data input	Fusamatic system for Fusion and Plasson fittings, manual data input optional
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, fault current, maintenance interval
Traceability	– (optional)
Data output	– (optional)
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5mm
Output voltage	8 - 48V
Output current	max. 110A
Input voltage	180V - 280V (230V), 110V/48V optional
Input frequency	40Hz - 70Hz
Input current	AC 16A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20°C to +60°C
Power cord	5m with EUR-plug
Welding cable	4m with 4.7mm connection terminals
Adapter	4.0mm in adapter bag (further adapters optional, see page 48)
Weight	16kg
Dimensions	W236 x H295 x D330mm
Manufacturer warranty	12 months
P/N	200-230-008

All-purpose welder for jointing applications with 40V fittings made of PE, PP, and PVDF, 8V - 48V, for sizes up to 1200mm[1]; dedicated to specific system.

[1] - For instance, agru fittings

HÜRNER SCHWEISSTECHNIK

HST 300 Geotherm+ /USB and HST 300 HP/USB

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8V - 48V, for sizes equal or smaller than 75mm, with report generation; mainly for geothermal system installation.

Technical specifications HST 300 Geotherm+ /USB

Automatic data logging	1580
Welding range	≤ 75mm
Data input	Bar code scanning pen, optional scanner
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, maintenance interval
Traceability pursuant to ISO 12176-3/4	Commission number, 32 alphanumeric characters, welder ID code, ISO-compliant, 1st (user-defined) additional data, 20 alphanumeric characters 2nd (user-defined) additional data, 15 alphanumeric characters
Data output	USB A for welding data transfer to USB-compatible printer or USB stick
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5mm
Output voltage	8 - 48V
Output current	max. 110A
Input voltage	180V - 280V (230V), 110V/48V optional
Input frequency	40Hz - 70Hz
Input current	AC 16A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	–20°C bis +60°C
Power cord	3m with EUR-with plug
Welding cable	4m with 4.7mm connection terminals
Adapter	4.0mm in adapter bag (further adapters optional, see page 48)
Weight	9.0kg
Dimensions	W236 x H270 x D250mm
Manufacturer warranty	12 months
P/N	200-230-112/USB interface 200-230-110/serial interface

Technical specifications HST 300 HP /USB

Automatic data logging	1800
Welding range	even > 2000mm
Data input	Bar code scanning pen, optional scanner, manual input of numeric fitting code or welding voltage and welding time
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, maintenance interval
Traceability pursuant to ISO 12176-3/4	Commission number, 32 alphanumeric characters, welder ID code, ISO-compliant and HÜRNER code 1st (user-defined) additional data, 20 alphanumeric characters 2nd (user-defined) additional data, 15 alphanumeric characters, ISO data: 2nd fitting code, 1st and 2nd pipe code, weather conditions
Data output	USB A for welding data transfer to USB-compatible printer or USB stick
Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, character height 5mm
Output voltage	8 - 48V
Output current	max. 130A
Input voltage	360V - 440V (400V) (3P + N + PE)
Input frequency	40Hz - 70Hz
Input current	AC 16A3~
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20°C to +60°C
Power cord	5m with CEE-plug 5x 16A-PH
Welding cable	4m with 6mm connection terminals
Adapter	4.0mm in adapter bag (further adapters optional, see page 48)
Weight	33kg
Dimensions	W260 x H365 x D330mm
Manufacturer warranty	12 months
P/N	200-230-041

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8V - 48V, including for sizes larger than 2000mm, with report generation.

HST 300 Print+ 8 V - 80 V/USB

All-purpose welder for jointing applications with fittings made of PE, PP, and PVDF, 8 V - 48 V and 80 V, for sizes up to 1200 mm[1], with report generation.

Technical specifications HST 300 Print+ 8 V - 80 V/USB

Automatic data logging	1800
Welding Range	up to 1200 mm[1]
Data input	Bar code scanning pen, optional scanner, manual input of numeric fitting
Welding monitoring system	Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency, input voltage, memory management, welding unit temperature, maintenance interval
Traceability pursuant to ISO 12176-2/4	Commission number, 32 alphanumeric characters, welder ID code, ISO-compliant and HÜRNER code 1st (user-defined) additional data, 20 alphanumeric characters 2nd (user-defined) additional data, 15 alphanumeric characters, ISO data: 2nd fitting code, 1st and 2nd pipe code, weather conditions
Data output	USB A for welding data transfer to USB-compatible printer or USB stick USB B for direct welding data transfer to a PC with HÜRNER's database software DataWork installed

Display	LED-lit screen, 4 lines, 20 alphanumeric characters each, height 8 mm
Output voltage	8 - 48 V, 80 V
Output current	max. 110 A
Input voltage	180 V - 280 V (230 V), 110 V/48 V optional
Input frequency	40 Hz - 70 Hz
Input current	AC 16 A
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU others upon request
Temperature range	-20 °C to +60 °C
Power cord	5 m with Euro plug
Welding cable	4 m with 4.7 mm connection terminals
Adapter	4.0 mm and 5.7 mm in adapter bag (further adapters optional, see page 48)
Weight	17 kg
Dimensions	W 260 x H 365 x D 330 mm
Manufacturer warranty	12 months
P/N	200-230-040

[1] - For instance, agru fittings

HST-S-160 and HST-S-315

All-purpose welder, 230 V, 50 Hz, 1200 W for jointing applications on PE and PP drain pipes of the makes Geberit, Akatherm-EUR, Coes, Valsir, Waviduo, Aquatherm, and Vulcathene-Euro.

Micro-controller-driven, single-hand operation welder with automatic temperature compensation by welding time, to joint drain pipes for non-pressurized conveyance. The unit audibly and visually, with a display, monitors the welding process. With its extremely compact dimensions, its weight of only 1.4 kg, and its long welding and power supply cables, the welder offers a very large operating radius, to make it ideal for working those pipelines that are really hard to reach.

Technical specifications HST-S-160

Welding range	40 - 160 mm
Output current	5 A regulated
Mode	A00
Input voltage	180 V - 280 V (230 V)
Input frequency	40 Hz - 70 Hz
Power	1150 W
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Temperature range	-20 °C bis +60 °C
Power cord	3 m with Euro plug
Welding cable	3 m with 2.0 mm connection terminals
Weight	1.4 kg
Dimensions	W 165 x H 200 x D 80 mm
Accessories	User's manual, HÜRNER bag
Manufacturer warranty	12 months
P/N	400-160-101

Technical specifications HST-S-315

Welding range	40 - 315 mm 40 - 160 mm: Valsir, Akatherm, Eurofu sion, Geberit, Waviduo, Coes 200 - 315 mm: Valsir, Akatherm, Eurofusion, Geberit
Output current	max. 11 A
Mode	A00, A01, A02
Input voltage	180 V - 280 V (230 V)
Input frequency	40 Hz - 70 Hz
Power	2490 W
Approvals/Quality/ Ingress protection	CE, ISO 9001:2008, IP54 (IP64 optional)
Temperature range	-20 °C to +60 °C
Power cord	3 m with Euro plug
Welding cable	3 m, 3-connector set: yellow, blue, red
Weight	1.5 kg, including bag and welding adapter cables 2.4 kg
Dimensions	W 165 x H 200 x D 80 mm
Accessories	User's manual, HÜRNER bag
Manufacturer warranty	12 months
P/N	400-315-101

All-purpose welder, 230 V, 50 Hz, 1200 W for jointing applications on PE and PP drain pipes of the makes Geberit, Akatherm-EUR, Coes, Valsir, Waviduo, Aquatherm, and Vulcathene-Euro.

Micro-controller-driven, single-hand operation welder with automatic temperature compensation by welding time, to joint drain pipes for non-pressurized conveyance. The unit audibly and visually, with a display, monitors the welding process. With its extremely compact dimensions, its weight of only 1.5kg, and its long welding and power supply cables, the welder offers a very large operating radius, to make it ideal for working those pipelines that are really hard to reach.

HÜRNER
– a whole world of accessories

Accessories & Tools
Accessories & Tools
– perfectly matched to each other

HÜRNER
SCHWEISSTECHNIK

A quality joint does not only require reliable welding systems, but also proper pipe preparation, the right accessories, and the right tool. Our product offering includes a broad range of tools and appliances for the proper mechanical processing of the pipe and appropriate welder cable adapters and containers.

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Accessories & tools

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Heating element socket welders - 54 -

Hot air and extrusion - 55 -

Push-on adapters for HÜRNER electrofusion welders

To make the electrofusion welder universally useful, easily changed connection terminal adapters are a must. They enable welding electrofusion fittings of all makes as well as professional establishment of the contact in large-size pipe systems.

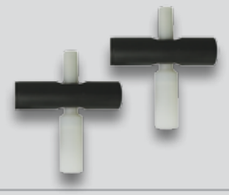
Type FF flat — *P/N 216-010-070*

Type FF round, 4.0 mm — *P/N 216-010-080*

Type 4.0 mm x 4.7 mm — *P/N 216-010-630*

Type FF pin — *P/N 216-010-400*

Type 4.7 mm x 4.7 mm — *P/N 216-010-580*



Type GF, loose wires — *P/N 216-010-090*

4.7 mm terminal — *P/N 216-023-430*

4.0 mm terminal — *P/N 217-010-061*

Type HP 6.0 — *P/N 216-010-401*

Type Hong Kong 5.7 mm — *P/N 216-010-071*

Heater-coil electrofusion accessories

HÜRNER Accessories for electrofusion applications on the worksite

Adapter bag — *P/N 216-030-310*

Cleaning towels — *P/N 216-100-103*

PE cleaning fluid AHK — *P/N 219-300-007*

Marker pen — *P/N 216-100-300*

Aluminum transport box — *P/N 200-216-002*

HÜRNER SCHWEISSTECHNIK

Pipe scraper

A quality joint does not only require worksite-proven welding systems, but also proper pipe preparation and the right tools. HÜRNER 's Rotary Pipe Scraper ensures reliable removal of oxide layers on PE pipes and is easy to use with minimum effort. The spring-loaded blade and the automatic feed mechanism enable continuous adjustment to oval pipe shapes and tolerances, which in turn is the basis for a consistent cut all around the pipe. The high-spec peeling/scraping blade made of hardened metal is the reason for the exceptional product longevity.

Part numbers for pipe scraper

Description	P/N
Pipe scraper, size 1, operating range 32-160 mm	216-100-060
Replacement blade, size 1	216-103-060
Pipe scraper, size 2, operating range 110-500 mm	216-100-070
Replacement blade, size 2	216-103-070
Pipe scraper, size 3R, operating range 355-710 mm	216-100-066

Part numbers for manual pipe scraper

Description	P/N
Manual pipe scraper, single blade	216-100-101
Replacement blades (pack of 5)	216-100-102

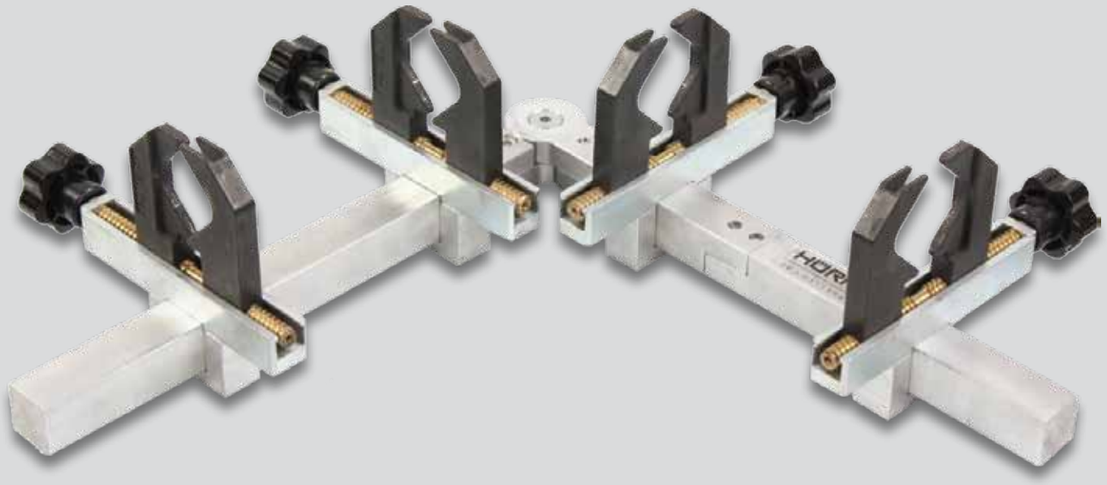
Part numbers for pipe scraping tool

Description	P/N
Pipe scraping tool O.D. 32	216-100-074
Pipe scraping tool O.D. 40	216-100-075
Pipe scraping tool O.D. 50	216-100-076
Pipe scraping tool O.D. 63	216-100-077
Replacement blades	216-100-079

Part numbers for manual pipe scraper

Description	P/N
Manual pipe scraper, 4-edge blade	219-300-008
Replacement blades (pack of 2)	219-300-009

Universal pipe aligner, plastic pipe shears, plastic pipe cutters



Part numbers for universal pipe aligner

Description	P/N
Universal pipe aligner d. 20 - 63 mm, incl. storage bag	219-000-022
Universal pipe aligner d. 63 - 160 mm, incl. wooden storage box	219-000-023

Part numbers for plastic pipe shears

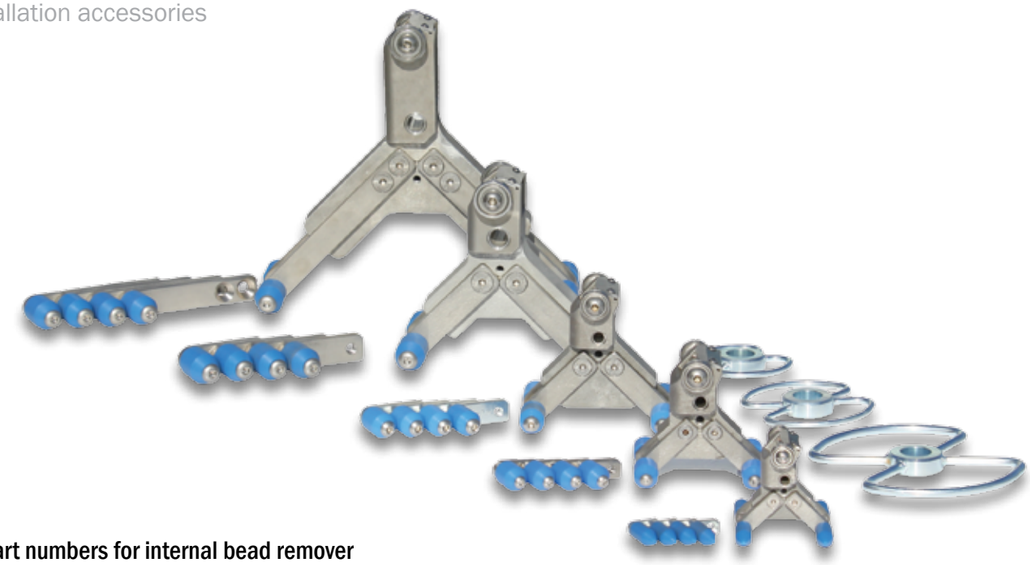
Description	P/N
Plastic pipe shear HSTCUT 35; 0 - 35 mm	216-100-213
Replacement blade HSTCUT 35	216-100-217
Plastic pipe shear HSTCUT 42; 0 - 42 mm:	216-100-214
Replacement blade HSTCUT 42	216-100-218
Plastic pipe shear HSTCUT 50; 0 - 50 mm:	216-100-216
Replacement blade HSTCUT 50	216-100-219
Plastic pipe shear HSTCUT 63; 0 - 63 mm	216-100-215
Replacement blade HSTCUT 63	216-100-220

Part numbers for plastic pipe cutters

Description	P/N
Plastic pipe cutter, size 1; 6 - 67 mm	216-100-210
Replacement cutting wheel, size 1	216-101-210
Plastic pipe cutter, size 2; 50 - 125 mm	216-100-211
Replacement cutting wheel, size 2	216-101-211
Plastic pipe cutter, size 3; 110 - 168 mm	216-100-212
Replacement cutting wheel, size 3	216-101-212

HÜRNER SCHWEISSTECHNIK

Installation accessories



Part numbers for internal bead remover

Description	P/N
Kit internal bead remover 90 - 500 mm	219-000-049
Drive linkage for internal bead remover, incl. 6 aluminum handle extensions 2.15 m each, 6 stabilisers and carrying bag	219-000-043
Cutting head 90 - 110 mm for internal bead remover	219-000-044
Cutting head 125 - 160 mm for internal bead remover	219-000-045
Cutting head 160 - 200 mm for internal bead remover	219-000-046
Cutting head 225 - 315 mm for internal bead remover	219-000-047
Cutting head 355 - 500 mm for internal bead remover	219-000-048

Part numbers for external bead remover

Description	P/N
External bead remover 75 - 400 mm	219-000-031

Part numbers for pipe cutter

Description	P/N
Guillotine pipe cutter 125 mm[1]	216-100-204
Guillotine pipe cutter 225 mm	216-100-194
Guillotine pipe cutter 315 mm[1]	216-100-195

[1] - under development

Installation accessories

Part number for pipe tripod

Description	P/N
Pipe tripod O.D. 400	219-000-024

Part numbers for chamfering tool

Description	P/N
Chamfering tool, size 1, 16 - 110 mm	216-100-002
Chamfering tool, size 2, 40 - 250 mm	216-100-003

Part numbers for pipe squeezer

Description	P/N
Pipe squeezer O.D. 20 - 63 mm manual	216-100-190
Pipe squeezer O.D. 63 - 180 mm hydraulic	216-100-191

Part numbers for rounding sleeve

Description	P/N
O.D. 63	219-000-035
O.D. 75	219-000-036
O.D. 90	219-000-037
O.D. 110	219-000-038
O.D. 125	219-000-039
O.D. 140	219-000-040
O.D. 160	219-000-041

HÜRNER SCHWEISSTECHNIK

Installation accessories

Part number pipe roller

Description	P/N
Pipe roller, up to 630 mm	216-100-198

Part numbers for rounding clamp

Description	P/N
O.D. 315	219-000-002
O.D. 355	219-000-003
O.D. 400	219-000-004
O.D. 450	219-000-005
O.D. 500	219-000-006
O.D. 560	219-000-007
O.D. 630	219-000-008

Part number for welding time control

Description	P/N
Stopwatch for welding time control	219-000-029

Part number for temperature gauge

Description	P/N
Temperature gauge	219-000-028

Heating elements

HÜRNER Handheld Heating Elements for welding applications, with an ergonomically designed handle, for various nominal diameters up to 250 mm. The elements feature temperature selector, power supply sensing, resume-heating sensor, and ship with a tabletop stand in a metal box that pleases the eye.

Part numbers for heating elements

Description	P/N
Handheld heating element HSE 120/30°; 230 V/0.9 kW, d. 120 mm	200-230-038
Handheld heating element HSE 120; 230 V/0.9 kW; d. 120 mm	200-230-047
Handheld heating element HSE 160; 230 V/0.9 kW; d. 160 mm	200-230-045
Handheld heating element HSE 190; 230 V/1.2 kW; d. 190 mm	200-230-039
Handheld heating element HSE 250; 230 V/1.4 kW; d. 250 mm	200-230-046

HÜRNER Socket Welder with an ergonomically designed handle, for placing heating spigots and heating sockets of various diameters, allowing 2 or 3 concurrently installed combinations, for welding sleeves, pipes, and fittings of up to 125 mm. The welder features temperature selector, power supply sensing, resume-heating sensor, and ships with a tabletop stand with fastening clamp in a metal box that pleases the eye.

Part numbers for heating element socket welder

Description	P/N
Socket welder set HMS 50 T; d. 20 - 32 mm; 230 V	200-230-023
Socket welder set HMS 50 T; d. 20 - 32 mm; 110 V	200-230-048
Socket welder set HMS 63 T; d. 20 - 63 mm; 230 V	200-230-022
Socket welder set HMS 63 T; d. 20 - 63 mm; 110 V	200-230-024
Socket welder HMS 125 T; d. 16 - 125 mm; 230 V (without sockets, spigots, storage box)	200-230-025
Socket welder HMS 125 T; d. 16 - 125 mm; 110 V (without sockets, spigots, storage box)	200-230-019

Hot air and extrusion

HÜRNER 's handheld welding extruders and the matched accessories are here to set a new standard of quality and user-friendliness. All extruders feature a patented system measuring the temperature in the extrudate itself and are designed with a three-section auger.

Two digital display screens show the actual and the theoretical temperature of both extrudate and air. With the highly ergonomic and compact design, HÜRNER extruders are the optimum choice not only for pipe joining on the construction site, but also for container manufacture.

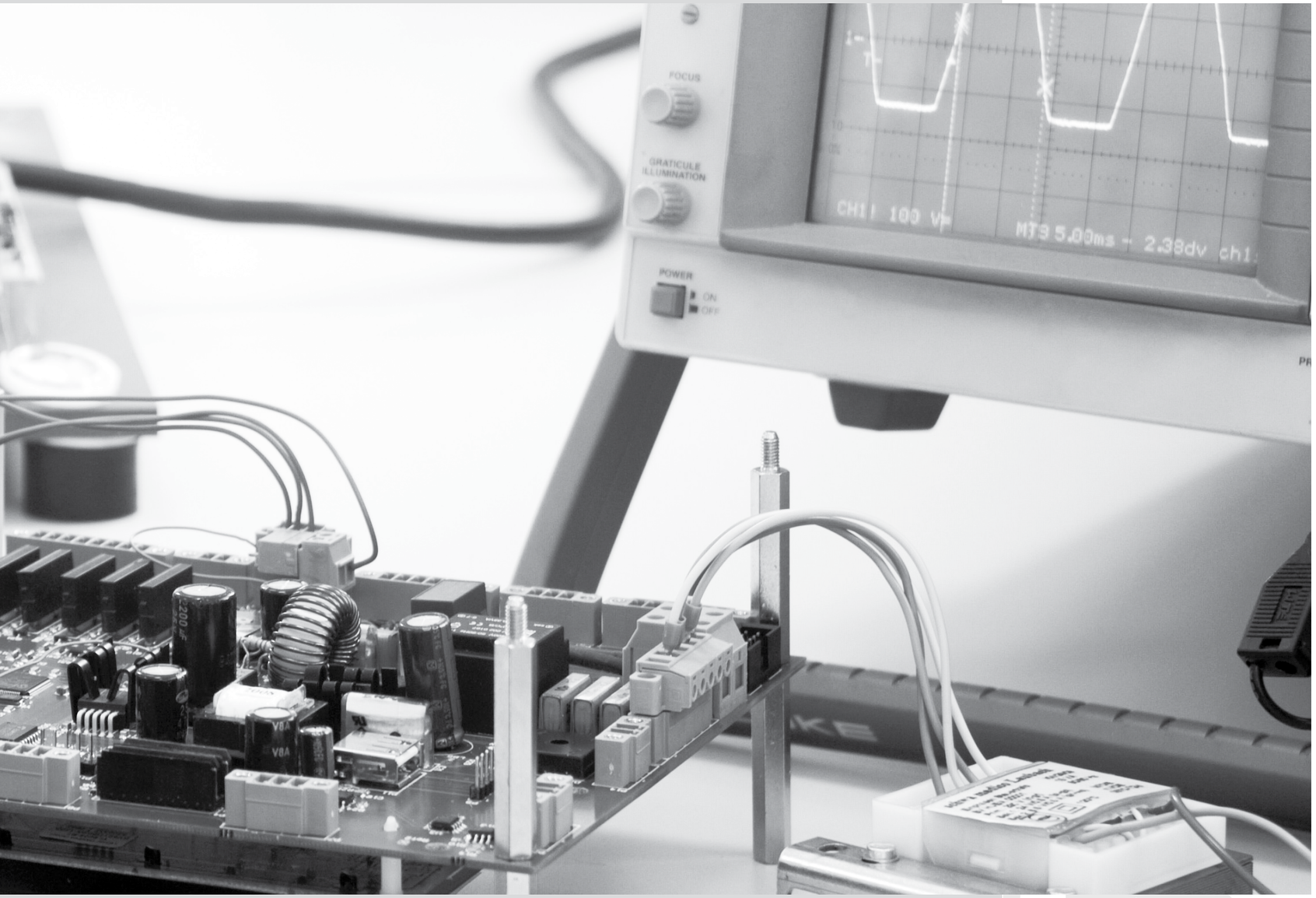
Technical specifications Extruder	HST-08 DE	HST-18 DE	HST-23 DE	HST-30 DE
Max. output, rod diameter	0.8 kg/h, 3 mm	1.8 kg/h, 4 mm	2.3 kg/h, 5 mm	3.0 kg/h, 4 mm
Material	PEHD /PP/ PVC/PVDF(1)	PEHD/ PP/ PVC/PVDF(1)	PEHD /PP/ PVC/PVDF(1)	PEHD /PP/ PVC/PVDF(1)
Heating power	Extruder 300 W/ Air 1500 W	Extruder 450 W/ Air 3000 W	Extruder 700 W/ Air 2300 W	Extruder 700 W/ Air 3000 W
Drive power	460 W	740 W	740 W	740 W
Weight	3.2 kg	4.8 kg	7.2 kg	7.2 kg
Input voltage	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz
Self-ventilation	√	√	√	√
Warranty	12 months	12 months	12 months	12 months
Part number	218-010-041	218-010-039	218-010-042	218-010-040

(1) - with a special kind of auger

HÜRNER 's HST 300 WGS combines an ergonomic and user-friendly handle for your benefit with superior heating performance, 1500 W at 230 V, and very light weight, to enable professional, effortless welding. The appliance also features a cold-air mode that does not require changing the set heating temperature. The collector carbons of the motor can be replaced several times, which means that the hot air welder is ready for continuous operation.
The air-cooled heating element tube matches a large number of nozzle types.

Technical specifications Hot Air Welder HST 300 WGS

Voltage	230 V / 50 Hz
Heating performance	1500 W, 230 V
Temperature range	20 - 700 °C infinitely variable
Weight	1200 g including 3 m power supply cord
Warranty	12 months
Part number	218-010-037



Software & Data Transfer

Software & Data Transfer

– Accomplished Data Processing

Along with processing equipment, HÜRNER has offered for years Windows-based software products for the creation and administration of welding-related information.

The reason is that all of the logged welding data is quite useless when you are unable to get it out of the welding system. Besides the possibility to send the data to a USB-compatible printer, all HÜRNER welding systems that have report generation capabilities, no matter whether they are electrofusion or butt welders, feature USB interface ports. Via these, it is also possible to transfer the welding data directly to a personal computer on which the database management software DataWork is installed.
Only when there is proper processing of the data, does the recording of data make sense.

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Software/Data transfer

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Job report editing software EasyDesign - 58 -
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Software

HÜRNER DataWork

- Downloading welding reports from all HÜRNER welding systems with report generation capability – CNC, Weld-Control, HST, SPG – and consolidation of reports in one application, whatever their source, both via a serial and a USB interface
- A broad range of sorting functions: by report header data, welding data, fitting data, measured welding parameters (including recursive sorting)
- Saving and converting data to various processing formats (Excel, CSV)
- Detailed view of error messages, including traceability data and measured welding parameters
- Selecting individual reports for print preview and print
- Multilingual user interface
- Report transfer over the internet by e-mail
- Downloading geo-data for each joint and foolproof assignment of these data to the correct welding report
- Improved operation reliability with automatic maintenance check for the systems from which the reports were retrieved
- Online functionality, for instance possibility to complete a maintenance order for a unit directly over the internet

Part number	216-080-505

DataWork is a database application, running under Windows 2000/XP/Vista/7, for downloading and processing welding reports from the HNSC 400/400 L unit, the HST 300 Pricon and Print series, SPG 2000 data logging units, and ***CNC ECO/ECO+*** and ***WeldControl*** series butt-welding machines.

EasyDesign is a software, running under Windows 2000/XP/Vista/7, for generating and printing job reports from a predefined template by just a few mouse clicks and keystrokes.

HÜRNER EasyDesign

- Standard-compliant generation of all bar codes for plastic pipeline construction work provided for by ISO
- Inserting into a given job report texts, job numbers, and company logo relevant for the job, and also up to two additional bar codes
- Bar code generation engine included in the program
- Possibility to save all text and graphic data to a database

Part number	216-080-507

Ancillaries for data tranfer

One USB interface port makes things easier, but only two of them, USB A and USB B, give you all the power that USB can mean to you.

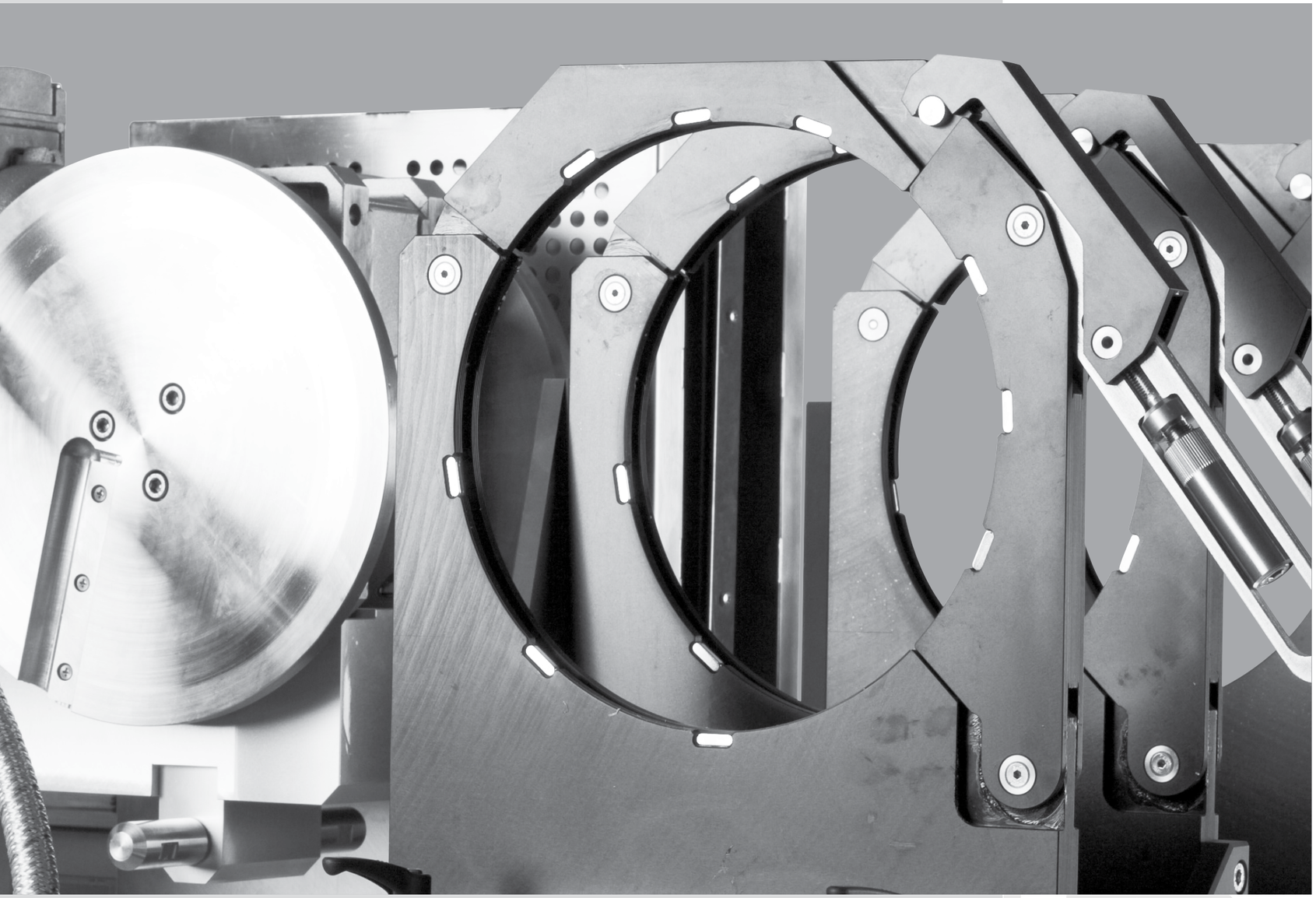
On more and more laptop computers, the only wired type of port you will find is the USB port. On the personal computer market in general, the traditional LPT, COM or PS/2 interface ports are increasingly becoming exotic add-on features that will raise the price of your product when you insist on them. HÜRNER Schweisstechnik has seen where the tide of times is driving us and has equipped all welding systems capable of report generation with USB interface ports. re the tide of times is driving us and has equipped all welding systems capable of report generation with USB interface ports. This gives you the possibility to send the welding reports from your electrofusion welder, butt-welding system or ***SPG*** data logger r to a USB-compliant printer or, via a standard USB port, to a PC. Furthermore, it enables you to turn a handy USB stick into a mobile storage media for your welding reports by saving the data to the stick on the worksite and downloading them to HÜRNER 's database management application DataWork later, when you are back in the office. HÜRNER Schweisstechnik delivers you the full power of USB, for we offer two systems with two interfaces, USB A and USB B, in order for you to be able to make full use of this functionality. It is even possible to upgrade existing units easily, just plug the external interface converter box USB 1000 into the combined serial/parallel port of your system or have the HÜRNER USB Conversion Set fitted into your system as an upgrade.

Part numbers for HÜRNER data management

Description		Article no.
HÜRNER USB stick	This practical USB stick is the ideal welding data storage media, to transfer them from the welding system on site to the computer in the office.	300-010-154
HÜRNER code cards	The ISO Welder ID Code card P/N 216-080-031 identifies the performing welder. The Operator Code card P/N KVS-75 is needed to change system settings.	216-080-031 or. KVS-75
HÜRNER scanning pen	This pen is your tool for reading all bar codes needed for welding parameter and traceability data input.	216-030-270
HÜRNER handheld scanner	This scanner is an alternative as the handy tool that enters the parameter and traceability data into the box; ships with the HÜRNER scanner storage bag.	216-030-250
HÜRNER USB 1000 box	To deliver the advantages of USB to older, existing welding systems, the USB 1000 box is available. This external interface converter with a traditional RS232 input and a USB output brings USB-readiness to non-USB units; ships with a DataWork update and a USB stick.	300-010-159
HÜRNER conversion set	It is of course possible, too, to turn existing HÜRNER welding systems into USB-ready systems by fitting this technology into the system itself as an upgrade; ships with a DataWork update and a USB stick (only approved service points are allowed to retrofit units with this set).	300-010-160
HÜRNER RS232/USB adapter	This is the simplest solution for transferring welding reports from a HÜRNER system with a serial interface port to a PC with HÜRNER's database management software DataWork via the USB interface of the PC.	217-010-122
HÜRNER interface cables	USB Cable welding system to PC Serial Cable 25-pin, welding system to PC Serial Cable round plug, welding system to PC Centronic Cable, welding system to printer	300-010-167 217-010-108 217-010-119 217-010-109

HÜRNER Workshop Technology

HWT-Line



Workshop machines

Workshop machines

- for fitting production and plant engineering

HÜRNER SCHWEISSTECHNIK

HÜRNER's Workshop Technology Line, HWT-Line for short, was designed for industrial manufacture of segmented bends, tees, crosspieces, and Y pieces as well as for plant engineering and construction.

All machines for in-shop application are designed according to the most up-to-date knowledge gathered by market surveys and reflect our many years of experience in the development of infrared machines for workshop applications.

Needless to add that all workshop machines for fitting manufacture are available both for manual operation and CNC operation. All machines ship set on a welded, very sturdy, and warp-resistant support stand.

Welding parameters are entered on CNC machines on a next-generation, high-resolution touch screen. And all CNC machine are equipped with two USB interface ports for direct welding report transfer to a USB stick, a USB-compatible printer or a PC with HÜRNER DataWork installed. A tag printer delivering extremely tear-proof tags is also available for fitting labeling.

The development focus for the machines made for plant engineers and builders was on extremely user-friendly handling and top-edge mobility. The HWT 160-M, in particular, is a perfect expression of this HÜRNER concept, at a weight of the basic machine of only 33 kg.

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HWT Line

Workshop technology for plant engineering and construction

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Workshop technology for fitting manufacture

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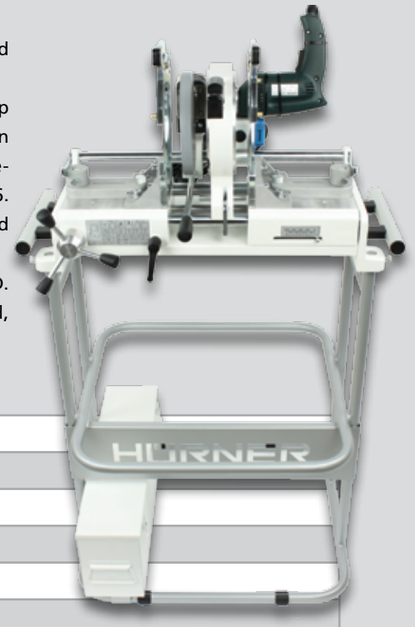
HWT 160–M, HWT 125–SW and BSM 450

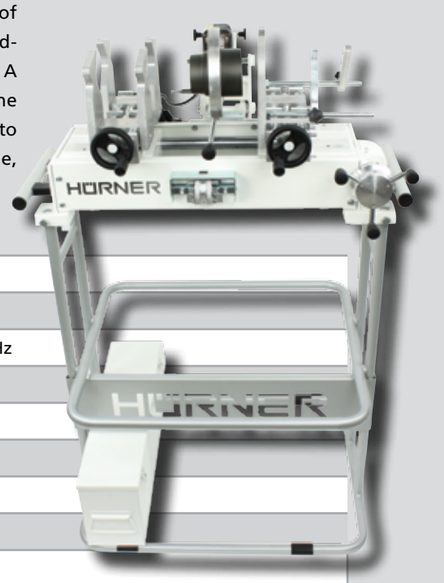
The practical HWT 160–M is a butt-welding system for jointing PE, PP, PVDF pipes and fittings from O.D. 40 - 160 mm with the heating element process.
This tremendously mobile next-generation welding machine for on-site and in-shop applications is extremely versatile and especially suited for sanitary installations, drain piping, and pressure pipes for water conveyance as well as roof drains and chimney refurbishing systems; for O.D. 40 - 90 mm, SDR 41 - 11; for O.D. 110 - 160 mm, SDR 41 - 17.6.
The machine ships with a sturdy stand, an electrical facing tool, heating element, and all reducer inserts; arrives plug-and-play, fully installed.
Its clamps swivel by up to 15 degrees allowing segmented bend welding in sizes O.D. 40 - 160 mm. The heating element can be removed from the machine, for use, if needed, next to it, e.g., with HÜRNER 's dedicated support stand.



Technical specifications HWT 160–M

Operating range	O.D. 40 (32) - 160 mm
Materials	PE, PP, other thermoplastic materials
Input voltage	230 V, 50 Hz/60 Hz
Power rating	1.8 kW
Transverse table travel	130 mm
Overall dimensions (basic machine)	W 730 x H 580 x D 430 mm
Weight (basic machine)	33 kg
Overall dimensions (incl. frame)	W 730 x H 1200 x D 550 mm
Reducers	(32), 40, 50, 63, 75, 90, 110, 125, 140 mm
Miscellaneous	Steel storage box for reducers, user's manual, tools
Part number	200-260-600

The HWT 125–SW is machine is used to socket-weld PP, PVDF, PE pipes and fittings of O.D. 32 - 125 mm. The machine ships pre-installed on a sturdy stand. The diamond-shaped clamps that can be set infinitely variably will safely secure pipes of all sizes. A stop at the fitting side ensures ideal fitting position, and a selector makes sure that the accurate fusion depth depending on part diameter, to which one part is inserted into the other, will be respected. The heating element can be removed from the machine, for use, if needed, next to it, e.g., with HÜRNER 's dedicated support stand.

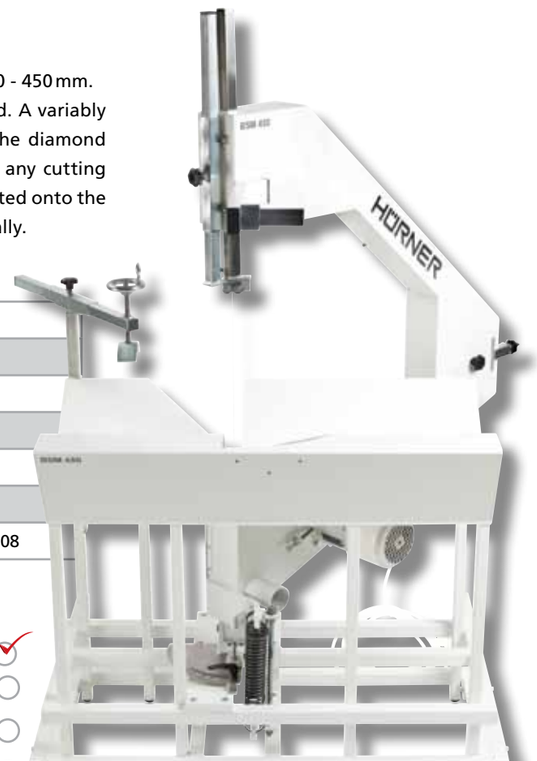


Technical specifications HWT 125–SW

Operating range	O.D. 32 - 125 mm
Materials	PE, PP, other thermoplastic materials
Input voltage	230 V, 50 Hz/60 Hz oder 110V, 50 Hz/60 Hz
Power rating	2.55 kW
Transverse table travel	130 mm
Overall dimensions (basic machine)	W 730 x H 420 x D 410 mm
Weight (basic machine)	34.5 kg
Overall dimensions (incl. frame)	W 780 x H 1150 x D 550 mm
Spigots/sockets	32, 40, 50, 63, 75, 90, 110, 125 mm
Other details	Steel storage box for sockets and spigots, user's manual, tools
P/N HWT 125–SW set (230 V)	200-260-300
P/N HWT 125–SW set (110 V)	200-260-000

HWT 160–M, HWT 125–SW and BSM 450

This band saw for cutting plastic pipes offers a working range from O.D. 50 - 450 mm. The machine has a steel pipework frame with a diamond-shaped pipe bed. A variably adjustable clamping system allows the manual securing of the pipe in the diamond bed. An angle gauge located on the side where the user stands enables any cutting angle from 0 deg. through 45 deg. An optional support panel can be mounted onto the diamond-shaped bed to enable you to cut tees and crosspieces professionally.



Technical specifications BSM 450

Machine dimensions	H 1800 x W 1400 x D 1200 mm
Machine weight	190 kg
Power supply	400 V, 50 Hz (3-phase PE, N)
Machine overall power	1250 W
Operating range	50 mm - 450 mm
Manufacturer's warranty	12 months
Standards, quality	WEEE-Reg.-Nr. DE 74849106, ISO 9001:2008

Part numbers BSM 450

Description	P/N
HÜRNER BSM 450	216-100-205
Support panel for tee and crosspiece O.D. 50 - 400 mm for BSM 450 band saw	216-100-014
Sawing band	216-101-205

Part numbers HWT 160-M

Description	P/N
Reducer insert 160/32	200-260-710
Reducer insert 160/40	200-260-701
Reducer insert 160/50	200-260-702
Reducer insert 160/63	200-260-703
Reducer insert 160/75	200-260-704
Reducer insert 160/90	200-260-705
Reducer insert 160/110	200-260-706
Reducer insert 160/125	200-260-707
Reducer insert 160/140	200-260-708
Replacement blades set	200-260-709
Handheld heating element HSE 190	200-230-039

Part numbers HWT 125–SW

Description	P/N
Spigot and socket d. 32 mm for socket welder HMS	200-230-030
Spigot and socket d. 40 mm for socket welder HMS	200-230-031
Spigot and socket d. 50 mm for socket welder HMS	200-230-032
Spigot and socket d. 63 mm for socket welder HMS	200-230-033
Spigot and socket d. 75 mm for socket welder HMS	200-230-034
Spigot and socket d. 90 mm for Socket Welder HMS	200-230-035
Spigot and socket d. 110 mm for socket welder HMS	200-230-036
Spigot and socket d. 125 mm for socket welder HMS	200-230-037

HWT 400–C

"Perfection in industrial fitting production."

The HWT 400-C is a numerically controlled plastic welding machine for workshop applications developed in compliance with the so-called machinery directive 2006/42/EC as amended, that allows the making of segments, tees, Y pieces and crosspieces. The machine is designed for the jointing of segmented bends from O.D. 90 to 400 mm and of tees, Y pieces, and crosses from O.D. 90 to 315 mm[1].

The machine is set on a welded, heavy-duty, no-warp support frame and the bearings on which move both the horizontally traveling carriages and the heating element and facing tool assembly, are designed as precision-engineered and heavy load-bearing trapeze-shaped guides with precision-matched runner blocks. As well the insertion and retraction of the heating element and the facing tool as the entire welding process are fully automated and, therefore, ensure utmost accuracy, ergonomic working, and tremendously short change-over delays.

Part numbers for HWT 400–C

Description		P/N	✓
Machine inclusive of CN control, LH and RH clamp assemblies, with reducers 90 - 355 mm		200-260-400	○
Clamp assemblies, right-hand and left-hand side	O.D. 400 mm	200-260-401	○
Reducer inserts for clamp assembly	O.D. 90 - 355 mm	200-260-402	○
Clamp assembly for tees (3 pieces)	O.D. 315 mm	200-260-403	○
Reducer inserts for tee clamp assembly	O.D. 90 - 280 mm	200-260-404	○
Clamp assembly for crosspieces 90 deg.	O.D. 315 mm	200-260-405	○
Reducer inserts for crosspiece clamp assembly	O.D. 90 - 280 mm	200-260-406	○
Clamp assembly for Y pieces 45/60 deg.	O.D. 315 mm	200-260-407	○
Reducer inserts for Y piece clamp assembly	O.D. 90 - 280 mm	200-260-408	○
Welding neck support	O.D. 90 - 315 mm	200-604-315	○
Clamp assembly for fittings	O.D. 90 - 400 mm	200-260-440	
Reducer inserts for fitting clamp assembly	O.D. 90 - 355 mm	200-260-441	
Label tag printer		200-260-431	○
Additional, supporting cylinder for clamp assemblies		200-260-410	○
Replacement blade 1 unit		315-109-026	○

[1] - 355 upon request

To improve the geometry of fittings and the quality of the joint, this next-generation representative of workshop technology features not only two horizontally moving and adjustable carriage consoles, but also an additional supporting cylinder (optional) for welding sizes 355 mm or larger.

The heating element temperature and the force are controlled in the course of the welding process in accordance with the applicable national standards (DVS, UNI, WIS, etc.). It goes without saying that all parameters that are critical for a high-quality and reproducible welded joint are monitored throughout the process and saved to the memory of the system, which can hold up to 10.000 reports.

When the machine ships, a high-resolution color touch screen of the latest generation is included as a standard feature. This panel enables entering and viewing both all required pipe or fitting parameters and the needed traceability data.

It is a premiere that the machine features user access control by RFID technology

Of course, the tried and tested input devices, scanning pen and handheld scanner, are also available.
Furthermore, all CNC machines are equipped with a USB interface to enable downloading the welding reports in the PDF format to a USB stick or sending them to the management database in the HÜRNER DataWork format. It is also possible to label a joint immediately for its quality by printing on plastic foil an indelible label tag with the available tag printer that will identify the fitting.

Technical specification

Machine dimensions	W 1511 x H 1384 x D 1920 mm
Machine weight	approx. 1000 kg
Mains power supply	400 V, 50 Hz, (3-phase PE, no N)
Machine overall power	9000 W
Heating element power	5000 W
Facing tool power	1580 W
Hydraulic unit power	1500 W / 120 bar
Ambient temp operating	0°C - 40 °C
Ambient temp storage	–5°C - 50°C
Heating element operating temperature	180 °C - 260 °C
Operating range	Segments: 90 - 400 mm Tees: 90 - 315 mm[1] Crosses: 90 - 315 mm[1] Ys: 90 - 315 mm[1]
Automatic Data logging	10.000 welded joints
Data transfer	USB interfaces (USB A) for USB stick and tag printer
Manufacturer's warranty	12 months
Standards, approvals, quality	Machinery Directive 2006/42/EC, DVS 2207-1, WEEE Reg. No. DE 74849106, ISO 9001:2008

[1] - 355 upon request

HÜRNER Monitoring Systems
for Chemical Storage Cabinets

Monitoring system
Monitoring system
Certified system solutions for users and laboratory constructors

It has been and will continue to be HÜRNER 's strategy to enter into partnerships for development with leading players of a given industry.
One of these alliances, which was entered into more than 10 years ago, has resulted in the development of a successful, TÜV-certified product line.

Besides very simple positive extraction boxes and fluid-mechanical monitoring systems, an ATEX-compliant filtered air extraction unit was developed as a first in 2009. This filtering and extraction system, which is used to positively extract the air from, and monitor the state, of storage cabinets for hazardous substances, achieves an almost 100% filtering of harmful solvent vapors (hydrocarbons) by molecular adsorption. The filter operation means optimum protection for the user. As a consequence, no additional air extraction outlet is needed, which, in turn, allows the filter unit to be operated immediately next to, or on top of, the storage cabinet. The decontaminated air is released into the ambient air, thereby not consuming any heated or air-conditioned air from the room.

This revolutionary innovation was nominated by an independent board of renowned university professors from all over Germany for the Innovations Award granted by laboratory science journal, GIT.

This nomination saw the HÜRNER filtering and extraction unit distinguish itself from 50 competitive products in the category Laboratory Supplies & Facilities. The filtering system made an impact on the board by its innovative technology, TÜV approval, and ATEX compliance. As an air extraction system, it as of today complies with ***"green lab"*** requirements. The newest developments include a protection system of modular design that identifies users and a BUS-ready touchscreen system for laboratory management ensuring optimum fluid media control. Of course, these systems, too, are TÜV-approved and have a TÜV Type Certificate.

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MPS - Modular Protection System

A certified system solution

Protect your chemical storage cabinet against unauthorized access, using the Modular Protection System (MPS). This system enables you to physically control the access to resources or hazardous substances in a state-of-the-art approach.

The identification ensures that only authorized persons are given access to the hazardous substances in question. This is implemented in the form of entering programmable PINs. The identification can then be paired to the locking or the unlocking of the door of the cabinet. This means that the authorizations of personnel can extend to the storage cabinets as well.
The MPS is an important module for you to continue to comply with increasingly tight requirements in terms of risk assessment as related to access control. In practical implementation, this may mean for you that work instructions providing for the safe and controlled use of hazardous substances can allow less complex routines, as, e.g., TRGS 526.

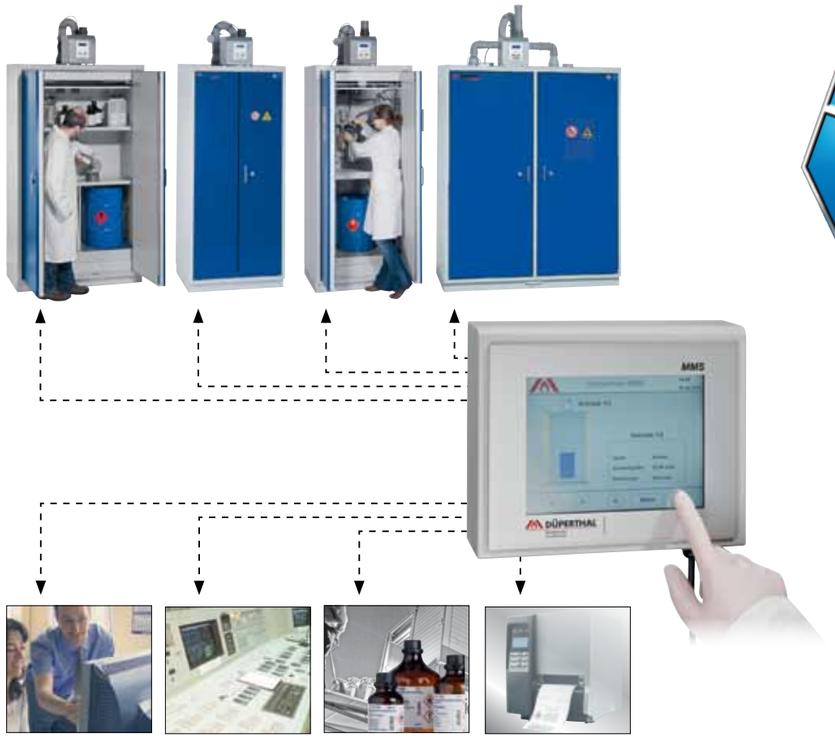
The functional application of the MPS also includes the possibility to equip the chemical storage cabinet with the new single-hand operation door controller ONE, which features automatic door closing. This can be implemented in the form of PIN entry, but also of various other identification devices, such as transponders, biometrical readers, etc.

Part numbers for MPS

Description		P/N	
MPS1	Transponder, door locking	500-200-100	○
MPS2	Transponder, door locking, door closing	500-200-300	○
MPS3	Level sensing, exhaust air monitoring	500-200-011	○
MPS4	Transponder, door locking, exhaust air monitoring, level sensing	500-200-111	○
MPS5	Transponder, door locking, door closing, exhaust air monitoring, level sensing	500-200-311	○

MMS - Fluid Media Management System

This fluid media management system with a programmable control terminal and numerous functional modules ensures highest levels of occupational safety. One control terminal can be used to control several chemical storage cabinets and can be set up with various modules.



In its standard model version, the system is composed of the following modules

(1) Identification module	which makes sure that only authorized persons are given access to the hazardous substances in question. In active storage mode, the media are released only subsequent to proper identification. This is implemented in the form of the input of a programmable PIN. The identification can also be implemented, upon request, with transponder keys or biometrical readers.
(2) Exhaust air monitoring module	which monitors the air extractions and triggers alarms as appropriate. The air extraction has to be always operating on cabinets that can go into active storage mode. When it is, it must constantly verify that there is a flow of extracted air and must alert to the problem whenever the airflow should fail. The exhaust air monitoring module is a way to comply with this requirement, i.e. when extraction airflow fails, an alarm is triggered and a signal is sent, e.g., to the control center.
(3) Dosing module	which enables exact filling. The dosing module turns the release of very small quantities of fluid media from large storage units into a process that it just as easy as it is safe. The ideal add-on to a COMPLEX Line drum station, there is the possibility, besides dosing, to ensure continuous analyses of consumed and remaining quantities.
(4) Level sensing module	which alerts to the risk of overflowing storage units. The level sensor drastically reduces any risk of bringing too much media into a storage unit, and the safety of both the user and the environment increases accordingly. The level sensing module is the part that completes the perfect solution, DISPOSAL Line. Combining the DISPOSAL Line and the COMPLEX Line brings you the ideal preconditions to ensure easy and safe media management.
(5) Door opening module	which opens the door when switched on at the keypad. When the command was entered and confirmed, an audible signal alerts the user to the door being opened. The pneumatic control system does not have any electrical or electronic component, which makes it the perfect choice for explosive atmospheres.
(6) Door locking module	which enables pairing door locking and door unlocking to user identification, thereby restricting access to the fluid media to those persons authorized to use them. In other words, access control for personnel can extend to the access to the chemical storage cabinets.

Exhaust Air Monitor with Fan

Easy air extraction and monitoring of chemical storage cabinets. A sensor monitors the extraction airflow and triggers a visual and audible alarm when no airflow above the set threshold is detected. The air extraction and monitoring unit with an integrated fan ships preassembled to be installed immediately on top of the storage cabinet. The alarm threshold for the airflow velocity is factory-set, but can be customized at the pressure offset meter. The enclosure is made of silver pearl glimmer, powder-coated sheet steel. The airflow sensor monitors the actual extraction velocity and the entire extraction system of the storage cabinet. Both the volumetric flow and the power supply are sensed by a microcontroller unit. When airflow velocity drops below the set threshold, visual and audible alarms are set off. The system ships with two potential-free ("dry") contacts (24 V/2 A) that can be used to send an alarm signal to the control center. An integrated battery cuts in in case of power supply failure and the monitoring system and the display, including error messaging, can run on it for 4 hours. The product ships ready for plug-in.

Technical specifications exhaust air monitor with fan

Width	250 mm
Depth	318 mm
Height	352 mm
Sleeve	75 mm
Volumetric flow	0 - 72 m³/h
Speed	0 - 2820 1/min
Voltage/frequency	230 V, 50 Hz
Power input	0,3 A
Sound pressure level L_{pA}	34 - 56 db (A)
Approval	Fan complies with DIN EN 14986
ATEX-compliant under Dir. 94/9/EC and Type Certificate issued by TÜV Süd; continued control pursuant to DIN EN 1946-7	
Part number	500-100-105

Exhaust Air Monitor without Fan

Easy airflow monitoring of chemical storage cabinets. A sensor monitors the extraction airflow and triggers a visual and audible alarm when no airflow above the set threshold is detected. The air monitoring unit fan ships preassembled to be installed immediately on top of the storage cabinet. The alarm threshold for the airflow velocity is factory-set, but can be customized at the pressure offset meter. The enclosure is made of silver pearl glimmer, powder-coated sheet steel. The airflow sensor monitors the actual extraction velocity and the entire extraction system of the storage cabinet. Both the volumetric flow and the power supply are sensed by a microcontroller unit. When airflow velocity drops below the set threshold, visual and audible alarms are set off. The system ships with two potential-free ("dry") contacts (24 V/2 A) that can be used to send an alarm signal to the control center. An integrated battery cuts in in case of power supply failure and the monitoring system and the display, including error messaging, can run on it for 4 hours. The product ships ready for plug-in.

Technical specifications exhaust air monitor without fan

Height	210 mm
Sleeve	210 mm
Volumetric flow	215 mm
Speed	75 mm
Voltage/frequency	230 V, 50 Hz
Power input	0,1 A
ATEX-compliant under Dir. 94/9/EC and Type Certificate issued by TÜV Süd; continued control pursuant to DIN EN 1946-7	
Part number	500-100-106

HÜRNER SCHWEISSTECHNIK

Air Extraction Box

Easy air extraction and monitoring of chemical storage cabinets. The air extraction unit with an integrated fan ships preassembled to be installed immediately on top of the storage cabinet. The enclosure is made of silver pearl glimmer, powder-coated sheet steel. The product ships ready for plug-in.

Technical specifications air extraction box

Width	250 mm	250 mm
Depth	318 mm	318 mm
Height	352 mm	352 mm
Sleeve	75 mm	75 mm
Volumetric flow	0 - 72 m³/h	0 - 60 m³/h
Speed	2600 1/min	1200 1/min
Voltage/frequency	230 V, 50 Hz	230 V, 50 Hz
Power input	0,1 A	0,1 A
Sound pressure level L_{pA}	56 db (A)	37 db(A)
Approval	Fan complies with DIN EN 14986	
ATEX-compliant under Dir. 94/9/EC and Type Certificate issued by TÜV Süd; continued control pursuant to DIN EN 1946-7		
Part number	500-100-107	

Filter Unit with Fan and Exhaust Air Monitor

Air extraction and monitoring of chemical storage cabinets, in the form of almost 100% decontamination of the extracted air by molecular adsorption filtering of harmful solvent vapours (hydrocarbons). The filter operation means optimum protection for the user. As a consequence, no additional air extraction outlet is needed, which, in turn, allows the filter unit to be operated immediately next to, or on top of, the storage cabinet. The decontaminated air is released into the ambient air, thereby not consuming any heated or air-conditioned air from the room. A sensor monitors the extraction airflow and triggers a visual and audible alarm when no airflow above the set threshold is detected. The enclosure is made of silver pearl glimmer, powder-coated sheet steel. As an air extraction system, it as of today complies with ***"green lab"*** requirements, while offering you full flexibility of set-up. The multi-stage filtering system offers dual safety, being composed of:

- activated carbon filter with twice as much activated carbon – for up to 100% decontamination
- additionally a DIN EN 779-compliant particulate filter

The filter alert appliance can be set at the pressure offset monitor. The filter elements themselves and the filter enclosure lid are monitored by ATEX-compliant micro-switches. The three-month check and replace interval of the activated carbon filter is verified by a check report the user has to confirm which is paired to a scheduler. The product ships ready for plug-in.

Technical specifications filter, fan and exhaust air monitor

Width	530 mm
Depth	440 mm
Height	270 mm
Sleeve	75 mm
Volumetric flow	0-37 m³/h
Speed	0-2820 1/min
Voltage/frequency	230 V, 50 Hz
Power input	0,1 A
Sound pressure level L_{pA}	34 - 56 db(A)
Approval	Fan complies with DIN EN 14986
ATEX-compliant under Dir. 94/9/EC and Type Certificate issued by TÜV Süd; continued control pursuant to DIN EN 1946-7; complies with requirements in TRbF 20 Appx L, BGV A 1, BGR 132 and TRBS 2153.	
Part number	500-100-109

HÜRNER
– the habit of being one step ahead

Recorded welding data is somehow useless if does not make it beyond the welding system. Therefore, from the very beginning we at HÜRNER Schweisstechnik have not only improved and enhanced our welding systems, but have made sure that data transmission, utilisation, and analysis tools have kept up the pace. We wish that our customers never feel lost and alone, neither when it comes to reliable welding automation, nor to handy helpers for pipe construction, nor to welding data processing. And we make a point of matching our products not only to our customers, but also to each other.

The fact that we've constantly lived up to this tough challenge is closely related to our extensive research and development effort. As we see it, only a development that we fully understand theoretically and that stood the test of our practical application is ready to market.

Our team of highly skilled engineers can rely on the input resulting from projects in which we partner up with leading technical schools and universities. Their know-how and our practical competence are the cornerstone of the unique performance and quality of our products.

That's how we are able to be ahead not only of our competitors, but often also ahead of our clients' expectations and requirements.

Development
Development
creating the future today

HÜRNER
– always there for you

DirectService

DirectService

Call in, be served

Since customer satisfaction is more for us than a catchword, we're not satisfied with delivering great products; we feel they have to be matched by excellent service before and after the sale.

Taking our "Service Around the Corner" principle seriously, we offer our HÜRNER ***DirectService*** to our domestic clients and direct you to our approved service centers in more than 40 countries all over the globe, in order to ensure that your HÜRNER welding systems are maintained and serviced as quickly as possible.

We not only recommend that you have your welding equipments serviced at regular intervals, we are also there to help and consult any time you need our input. Whether system service, troubleshooting, or customized retrofit of serial units, our high-performance service team is constantly ready to help, no matter if it's electrofusion or butt-welding technology, accessories, software or consultancy you require.

Feel free to get in touch with your competent contact. We make sure that both in-house at our headquarters and with our service partners the world over you will always get just that little more than you were expecting.

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Sales and Operations

Dipl.-Phys. Heinz Ladstätter
Managing Director

Ph +49 6401 9127 43
Fx +49 6401 9127 39
Mb +49 172 670 1944
h.ladstaetter@huerner.de

Dipl.-Ing. Michael Lenz
Managing Director

Ph +49 6401 9127 20
Fx +49 6401 9127 39
Mb +49 170 481 5683
m.lenz@huerner.de

Heads of Department

Electrofusion Welding
Exhaust Air Monitoring

Christian Walther
Master Craftsman

Ph +49 6401 9127 87
Fx +49 6401 9127 85
c.walther@huerner.de

Butt Welding

Uwe Seibert
Master Craftsman

Ph +49 6401 9127 47
Fx +49 6401 9127 85
u.seibert@huerner.de

On-demand Systems

Ferdinand Kraus
Master Craftsman, QMB

Ph +49 6401 9127 46
Fx +49 6401 9127 39
f.kraus@huerner.de

Order Processing, Export Management, Accounting

Marina Schlipp
Ph +49 6401 9127 0
Fx +49 6401 9127 39
info@huerner.de

Christian Bohr
Ph +49 6401 9127 22
Fx +49 6401 9127 39
c.bohr@huerner.de

Sandra Lenz
Ph +49 6401 9127 29
Fx +49 6401 9127 85
s.lenz@huerner.de

Customer Service

Training International

Ingo Scholz
Ph +49 6401 9127 44
Fx +49 6401 9127 85
i.scholz@huerner.de

Service, Repair, Maintenance

Mirko Jost
Ph +49 6401 9127 45
Fx +49 6401 9127 85
m.jost@huerner.de

Purchasing, Stock

Andreas Lich
Ph +49 6401 9127 86
Fx +49 6401 9127 85
a.lich@huerner.de

Whoever wants to make it on the international market has to convince their customers around the world by first-class products, all the time. This includes the quality of the products and also that of all the processes and procedures implemented in all parts of the company, from management to back-office administration, to service and customer care. To live up to these goals we have set for ourselves, we employ a team with outstanding qualifications, including engineers, technicians, and skilled workers. Since 1998 we have implemented an end-to-end quality management system under ISO 9001, closely linked to TÜV Management Service Süd. We thus ensure the continued convincing quality level of our products and services, putting into practice our motto, "Quality is when the customer returns, not the merchandise."

General terms and conditions of delivery and trading of Hürner Schweisstechnik LLC - applicable to all agreements entered into with non-consumers, as of Jan. 2010

1. Object

1.1 Our General Terms and Conditions shall apply to any and all present and future commercial transactions, even when they are not explicitly referred to. Our General Terms and Conditions shall apply analogously, and solely, to services related to the sale of products.
1.2 Our General Terms and Conditions shall be the sole and exclusive conditions applicable to product sale and service provision; we disagree with any and all dissenting or complementary conditions.
1.3. All agreements entered into with us shall be put down in writing.
1.4 Reasonable technical modifications and changes of characteristics such as size, shape, color, and/or weight are reserved.

2. Effectiveness of Agreement

2.1 Our offers are subject to change.
2.2 If, exceptionally, a term for acceptance is included in an offer, the offer must be accepted in writing.
2.3 We consider contractual offers that by the ordering party submits, binding for two weeks from the date of receipt of such offers.
2.4 Any and all agreements entered into are subject to the correct and timely delivery to ourselves by our suppliers. This shall only apply in cases where we are not responsible for failure to deliver, in particular in cases of matching cover transactions entered into with our supplier. The ordering party shall be notified of the impossibility to deliver without delay. Any consideration for the performance shall be returned without delay.

3. Pricing, Terms of Payment

3.1 Unless prices were confirmed different in writing, our pricing in force at the day of delivery shall apply. All prices are exclusive of transport cost, sales tax, customs duties, and other fees incurred from the moment of entering into the agreement to the moment of transfer of the goods as provided for in the agreement.
3.2 Unless the order confirmation declares otherwise, our invoices are payable within 30 days without any discount or within 14 days at 2% early-payment discount. Payment is deemed effected when we can freely dispose of the amount paid. Bills of exchange and checks shall not be accepted in performance, but only instead of performance.
3.3 We shall be entitled to set payments off against previous debts. In this situation, discounts for early payment of a current debt shall be unacceptable.
3.4 Die Aufrechnung und nicht auf diesem Vertragsverhältnis beruhende Zurückbehaltungsrechte sind gegenüber unseren Forderungen ausgeschlossen, es sei denn, die Gegenforderungen oder -ansprüche sind unbestritten oder rechtskräftig festgestellt.
3.5 Setting off claims and exercising liens related to transactions other than this agreement against our receivables shall not be acceptable, unless such counterclaims or counter-receivables are undisputed or legally recognized.
3.6 In the case of delayed payment, we shall be entitled to claim a flat 5 euros for every payment reminder, interests for default of 8 points above the base rate, and any additional damages we may have incurred. The ordering party shall be entitled to produce evidence that no or less damage was incurred.
3.7 If such circumstances come to our knowledge as would be likely to lower the financial standing of the ordering party, in particular if it goes into insolvency, we shall be entitled to declare all receivables due and payable, even when bills of exchange or checks were previously accepted, and to request prepayment or the provision of security for any remaining (partial) deliveries.

4. Packaging, Delivery

4.1 Packaging shall be performed as appropriate for the product and at the ordering party's cost. We shall be entitled to minor changes of quantity as compared to the ordered product, if so required for reasons of packaging the shipment. The wrapping and packaging material shall be the ordering party's property from the moment of transfer of the goods, and we shall not be required to accept return of such material. Any disposal routines such material may have to be subjected to shall be carried out by the ordering party.
4.2 The place of delivery shall be the place of performance as provided for under no. 5.1 hereinafter. The delivery shall occur in the form of the transfer of the goods in case of pick-up, in the form of transport, at the ordering party's cost and perils, to the destination and the transfer of the goods at such place, where delivery to destination shall be considered as delivery to the destination without unloading.
4.3 A date of delivery shall be binding only when it was agreed upon in writing.
4.4 We shall be entitled, but shall not be required, to insure the goods in transit at the ordering party's cost and to effect partial performance, unless this is of no interest to the ordering party.
4.5 Any person physically receiving the product for the ordering party and signing the bill of delivery in evidence thereof, shall be considered authorized to effect the receipt of the product. The ordering party shall unload the product without delay.

5. Place of Performance, Transfer of Perils

5.1 The place of performance shall be the place where the product is picked up, in case of pick-up, and the place where the transport begins, in all other cases.
5.2 The perils of transport are transferred to the ordering party at the moment the product is picked up, in case of pick-up, and at the moment the transport begins - even when the product is delivered free of freight and haulage - in all other cases.

6. Defects

6.1 If a product were found to be defective, we shall, at our discretion, firstly remedy such defect by rectifying the defect itself or delivering a replacement product. If such supplementary performance would fail, the ordering party shall in principle be entitled to request, at its discretion, the lowering of the consideration (reduction) or the unwinding of the agreement (rescission). However, the ordering party shall not be entitled to rescind the agreement if the breach of the agreement is insubstantial, in particular if a defect is minor. In case of the replacement delivery of a product, the ordering party shall be required to concurrently transfer title to the defective product back to us.
6.2 The ordering party shall notify us in writing of obvious defects within 5 days from the receipt of the product; should this not happen, it shall no longer be entitled to raise claims for such defects. This term shall be met when the notification is sent within time. The ordering party shall produce evidence that these preconditions of raising a claim are met.
6.3 Products for which claims for defects are raised shall neither be processed nor mixed into or bonded with other items.
6.4 The characteristics of the product contained in our or its manufacturer's description of it shall be considered the only characteristics agreed upon. Public utterances, representations, or advertisements, on the contrary, shall not be considered contractual descriptions of the product characteristics.
6.5 Any such descriptions of product characteristics or other such declarations in relation to it shall not be mistaken as making a warranty. The ordering party shall claim as a warranty statement only such statements as were put down in writing and declared such..

7. Disclaimer

We cannot be held liable to minor breach of our contractual obligations. This liability limitation shall not apply to claims raised out of product liability and shall likewise not apply to claims raised out of harm to life, body or health.

8.Retention of Title, Securities

8.1 Title to the delivered product shall be retained until full payment of all invoices made by us in the course of the commercial relationship with the ordering party. The ordering party shall handle the product with due care.
8.2 If a third party seeks seizure of the product, in particular in cases of distraint, the ordering party shall indicate that title is retained and shall notify us without delay of such act. Such seizure shall entitle us to rescind the agreement. Insofar as the third party is unable to reimburse the cost we incur because of such act, be it with or without prior court approval, the ordering party shall be liable for such cost.
8.3 The ordering party shall notify us without delay of any damage to, or destruction of, the product, in whole or in part, as well as of any transfer of possession of the product or relocation of the ordering party's registered address.
8.4 In the event that the ordering party would break the agreement, in particular in cases of default of payment or breach of the contractual obligations provided for by no. 8.2 and no. 8.3 herein, we shall be entitled to rescind the agreement and to request return of the product.
8.5 The ordering party shall be entitled and shall herewith be authorized to sell the product in the normal flow of its business. In consideration thereof, it cedes to us all receivables and/or transfers to us all parts in the title to it that it acquires out of the sale or the bonding, mixing or processing of the product (hereinafter referred to as "securities") up to and including the amount in our invoice applicable to the product, plus a security fee of 20%. The ordering party is herewith granted the revocable authorization to collect at its own cost the receivables ceded to us and to control our property; where this authorization shall not affect our securities. When the ordering party effects payments in relation to the invoices so secured, we shall release the securities at the pro-rata of the payment. If the ordering party is in default, we shall be entitled to request it to disclose our securities to third parties against which it is entitled to raise payment claims, and to request it, furthermore, to indicate to such third parties that they are to effect payment to us up to and including the open invoice amount, and to request it to provide any information needed to perform the securities.

9. Privacy, Final Provisions

9.1 We store personal data related to the ordering party, and we declare that all our involved personnel are required to comply with privacy and secrecy provisions related to such data.
9.2 The law of the Federal Republic of Germany shall be applicable solely; the United Nations Convention on Contracts for the International Sale of Goods shall be excluded.
9.3 The sole place of jurisdiction shall be the registered office of Hürner Schweisstechnik LLC.
9.4 If any provision of this agreement entered into with the ordering party, including these General Terms and Conditions of Delivery and Trading, should be or come to be unenforceable in whole or in part, this shall not affect the enforceability of the remaining provisions. Rather, such provision shall be deemed agreed upon as is enforceable and can be agreed upon as being as close as possible to the economic objective said unenforceable provision sought to obtain.

10. Contract Language, Place of Jurisdiction, Applicable law

1. Both parties have agreed that the contract language shall be the German language.
2. The parties submit for all contractual and extra-contractual disputes arising from the agreement, including action taken in relation to bills of exchange and checks, to the local and international exclusive jurisdiction of the courts of Giessen, Federal Republic of Germany. Furthermore, we shall have the right to bring a claim before a court at the buyer's principal place of business or before any other court being competent according to any national or international law.
3. Both parties have agreed that the laws of Federal Republic of Germany shall apply. The United Nations Convention on Contracts for the International Sale of Goods shall not apply..

You want to learn more about us?

Feel free to ask for a meeting on our premises. Detailed information on the company and on our product range is also available on-line at **www.huerner.de**

HÜRNER
SCHWEISSTECHNIK

HÜRNER Schweißtechnik GmbH
Atzenhain
Nieder-Ohmener Str. 26
35325 Mücke
GERMANY

Ph +49 6401 9127 0
Fx +49 6401 9127 39

Email info@huerner.de
Internet: www.huerner.de